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IN THE LOOP

Minneapolis' dynamic North Loop is home to the most distinctive new restaurants in town.

PAGE 21

DESIGN HARVEST

Epic Systems expands its corporate campus in Wisconsin with a barn, a shed, and a stable.

PAGE 34

MATERIAL SCIENCE

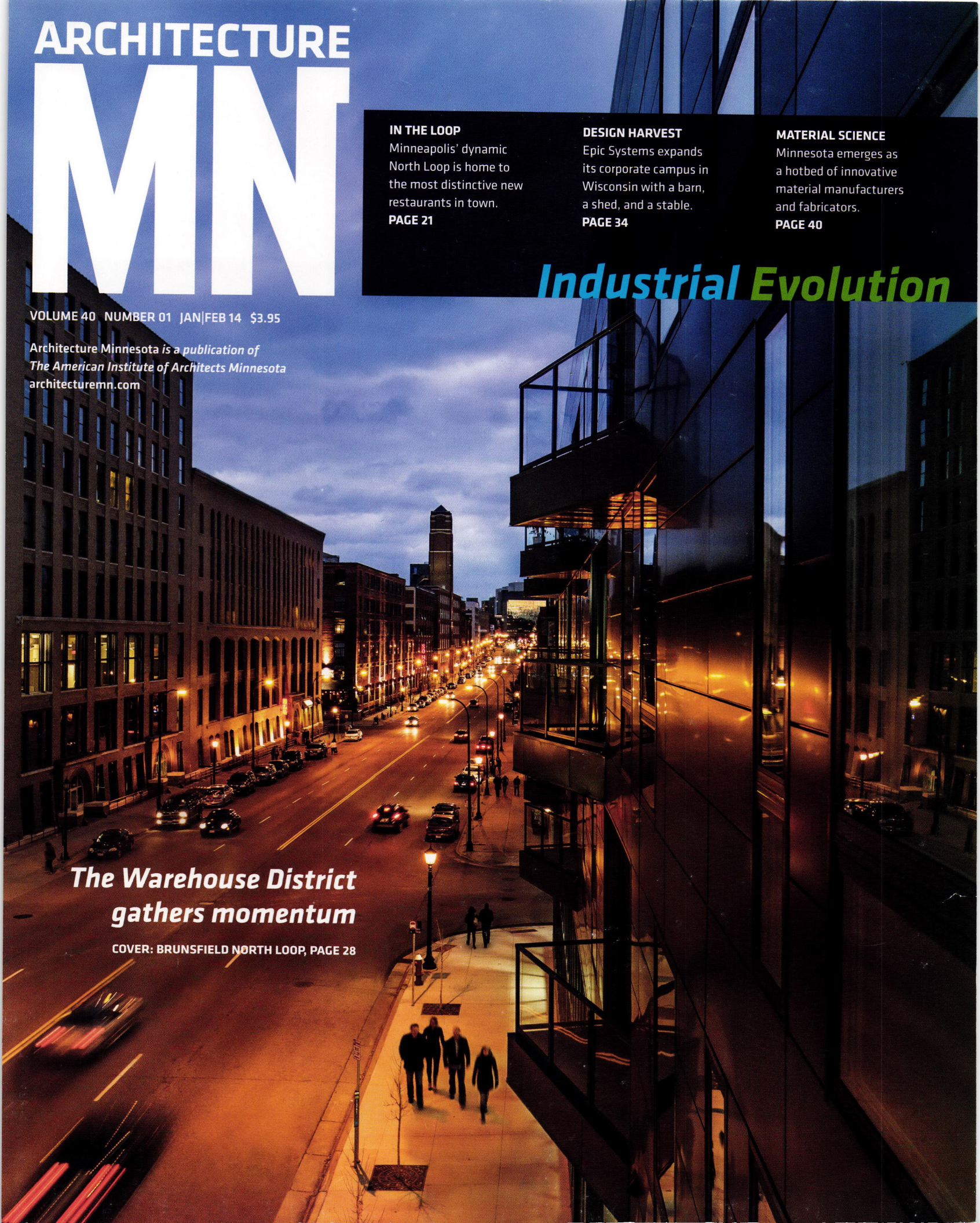
Minnesota emerges as a hotbed of innovative material manufacturers and fabricators.

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Industrial Evolution

**The Warehouse District
gathers momentum**

COVER: BRUNSFIELD NORTH LOOP, PAGE 28



FRANÇOIS & Co.

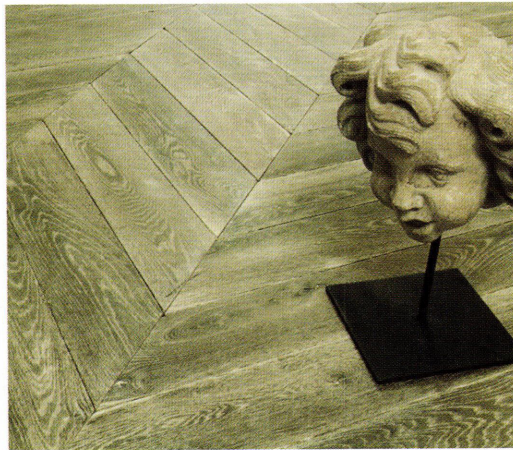
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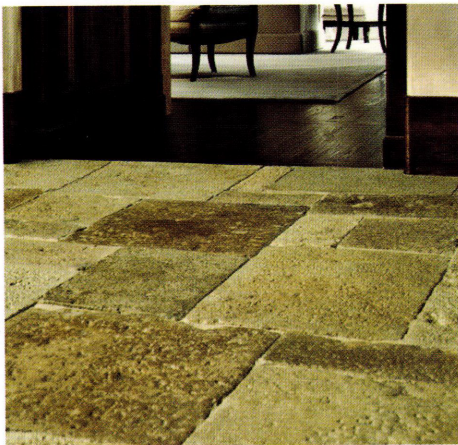


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Architecture Minnesota, the primary public outreach tool of the American Institute of Architects Minnesota, is published to inform the public about architecture designed by AIA Minnesota members and to communicate the spirit and value of quality architecture to both the public and the membership.



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Minneapolis' popular North Loop undergoes more industrial evolution with the addition of three design-forward restaurants and an apartment building unlike any other in the city.

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The Artful Bachelor: The Bachelor Farmer
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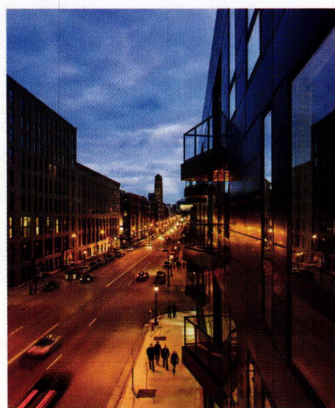
By Linda Mack

"We wanted to evoke this feeling of rural Wisconsin," says Cuningham Group Architecture's Dan Grothe of the latest expansion of the Epic Systems corporate campus. "We made some literal moves, but we were also trying to be not so literal—to be playful."

40 *Material Science*

By John Comazzi

Minnesota architects aren't the only players in the local building industry getting noticed around the country. Several material manufacturers and fabricators in the Twin Cities are innovating their way to collaboration with some of the world's leading architects.



ON THE COVER

Brunsfeld North Loop
Minneapolis, Minnesota

"It seems like only yesterday that I would walk the North Loop with my camera, looking for inspiration in its tattered old warehouses," says photographer **Paul Crosby**. "Now inspiration comes from bold new buildings like the Brunsfield North Loop, with its dramatic lines and flashes of bright red."



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A DYNAMIC DECADE

I'm not one to make predictions, but I've got a big one for you: The 2010s will go down as one of the most urbanistically impactful decades in Twin Cities history. Actually, as forecasts go, this one's not that bold. Seemingly every other story in the local news these days is an update on plans for a major urban development or redesign. Fortunately, many of these building, landscape, and transit projects are on track (pun intended) to make our core cities more commercially and culturally vibrant.

In Minneapolis, the decade began with a boom (sorry, I'll stop) when Target Field gave us more than just a great venue for watching major league baseball—it put the skyline on dramatic display and flooded surrounding streets and restaurants with people 81 days of the year. It also gave the long-redeveloping North Loop neighborhood another jolt, which has yielded, among other benefits, more housing and restaurants (pages 21–33), a Whole Foods, and a soon-to-be-completed multimodal transportation hub and outdoor event space.

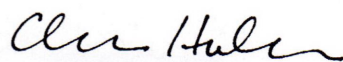
On the other side of downtown, the new Vikings stadium has broken ground, and its power as an engine of economic development is already apparent in Ryan Companies' proposal for two new mixed-use towers and a large urban park in the underutilized blocks between the stadium and the downtown core. Meanwhile, the core itself is gathering renewed vitality with a new residential tower (page 13), plans for another a block away, and the coming redesign of Nicollet Mall by James Corner Field Operations, the landscape architecture and urban design firm responsible for the internationally celebrated High Line in New York City.

What about the much-debated streetcar line or lines? All the cranes in Uptown and Lyn-Lake? The RiverFirst initiative, which aims to transform North Minneapolis' riverfront? I don't have room here to do them justice.

That's because I also need to spotlight St. Paul. Our readers who braved the rain for the overnight Northern Spark celebration this past June got a glimpse of the electricity the arts-flavored Lowertown district will generate when the new St. Paul Saints ballpark (2015) joins forces with the METRO Green Line (2014) and the beautifully refurbished Union Depot

(2012). Of course, the new Twin Cities–spanning light-rail line—the most pivotal project of all—will have energy all its own, shuttling riders from one downtown to the other and fueling business growth along its path (page 15).

Can you see it all materializing? Does it stir you, even a little? In a media-saturated culture awash in hyperbole, I leave you with an understatement: The Twin Cities will offer a richer, more livable urban experience in January 2020.



Christopher Hudson
hudson@aia-mn.org



The Twin Cities they are
a-changin'—we think for
the better.

EDITOR'S
NOTE

MOLIN

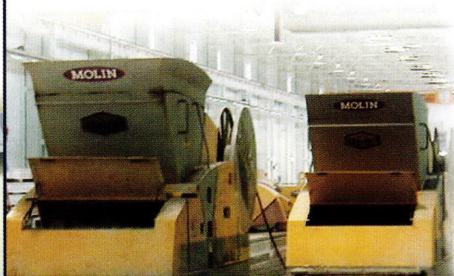
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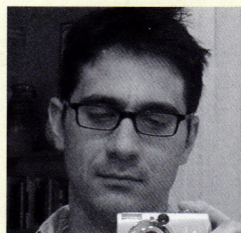
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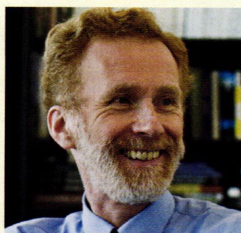
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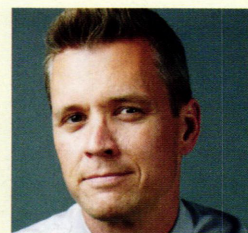
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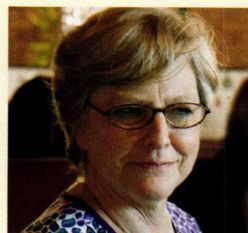
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VIDEOTECH 4: The Judges

Our fourth annual design-themed video competition, cheekily titled "Two People Walk into a Bar," has attracted an all-star panel of judges: Susan Smoluchowski, executive director of the Film Society of Minneapolis-St. Paul; Surly Brewing Company's Omar Ansari (page 15); Minnesota Public Radio Movie Maven Stephanie Curtis; and architect

Jon Buggy, AIA, director of Gensler's Minneapolis office (page 17). For competition guidelines and registration, visit architecturemn.com.

This year's judges come from the worlds of film, craft brewing, and architecture.

THE BASICS

Challenge: Make an entertaining video that shows how design can enhance social interaction in a restaurant, bar, or coffee shop.

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NEW THIS YEAR: Vine Video

Make a Videotech 4 Vine video—as many as you like, in fact—in addition to your official entry for a chance to win one of several \$100 prizes. No registration needed—just post the video by February 3, 2014, with the hashtag #videotech4.

THE TIMELINE

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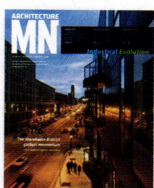
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After you've read our print edition cover to cover, be sure to check out all the videos on architecturemn.com.



RYAN SIEMERS

Renaissance Box, a conversion of an historic St. Paul shoe factory into 70 units of LEED-Gold, arts-flavored affordable housing, received the 2013 Affordable Housing Design Award from AIA Minnesota and the McKnight Foundation.

In this Ryan Siemers video, developer Aeon, architecture and engineering firm LHB, and a Renaissance Box resident tell the story of the project's impact on the surrounding community.



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CITY COURSE

For one weekend in the heart of winter, the City of Lakes Loppet turns Minneapolis into an unforgettable track for cross-country skiers

To Minnesotans of non-Scandinavian descent, the words *skijoring* and *loppet* may sound like the names of gelatinous Nordic culinary dishes. But to those familiar with the annual City of Lakes Loppet in Minneapolis, they stir feelings of anticipation for one of the most beloved events of winter. The idea behind the three-day, cross-country ski festival, organized by the nonprofit Loppet Foundation, is Midwestern through and through: Instead of hiding indoors from some of the coldest days of the year, why not embrace them with an unforgettable winter-sport celebration?

The urban environment makes for a unique loppet experience. Competitors on skis, snowshoes, and fat-tire bikes traverse courses that run from North Minneapolis' rolling Theodore Wirth Park to the bustling streets of Uptown; some skiers finish their race with a sprint down Hennepin Avenue. Loppet Foundation executive director John Munger

credits the city's early park-system founders for laying the foundation for such an event: "In what other urban area in the world can you pull off a real ski marathon right through the heart of the city?"

Saturday's noncompetitive, after-dark Luminary Loppet is often the weekend's most popular offering; participants ski, snowshoe, or hike an ethereal, candle-lit trail loop on Lake of the Isles below a starry winter sky. The roughly two-and-a-half-mile course is lined with more than a thousand ice luminaries and also features bonfires, hot cocoa stations, and historical landmarks re-created in ice—Stonehenge is one of them. "The event is about much more than skiing," says Munger of the Luminary Loppet. "[It's] about our community celebrating winter." The same can be said of the entire City of Lakes Loppet festival, where hardy Midwesterners come out to play in the frigid depths of winter.

—Angie McKinley



PHOTOS BY STEVE KOTVIS, F/GO PHOTOGRAPHY (UNLESS OTHERWISE NOTED)

Got some free time and an interest in design? Culture Crawl rounds up the latest cultural offerings from around the state.

CULTURE CRAWL



DAVE BRYAN

City of Lakes Loppet

January 31–February 2
www.loppet.org

In addition to both competitive and noncompetitive skiing, the festival includes events for:

- * ICE CYCLING
- * SNOWSHOEING
- * SKIJORING (skiers pulled by dogs)
- * DOGSLEDDING

And for the kids:

- * SNOW SCULPTURE CONTEST
- * SUPERCARNIVAL

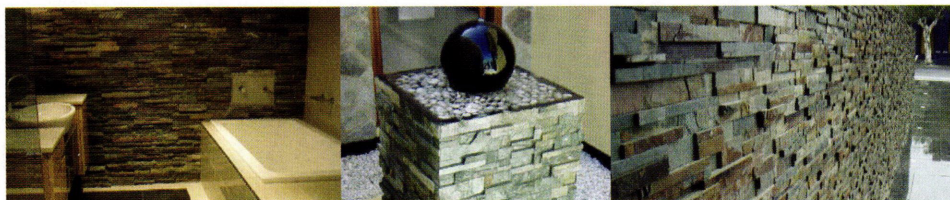
For everything you need to know about the City of Lakes Loppet, including parking information, course maps, and the best spots from which to watch the races, download the printable Spectator Guide.

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The Nic on Fifth

PROJECT COMPLETION:
SUMMER 2014

The first new residential high-rise in downtown Minneapolis in nearly 30 years signals an early success in the city's campaign to substantially increase population—and commercial and cultural vitality—in the urban core

Fast Forward previews marquee architectural projects nearing completion.

**FAST
FORWARD**

The **roof terrace** boasts a pool, fire pit, grilling area, and play area for dogs. But perhaps its most memorable feature is its intimate view of surrounding high-rises.



At street level, the building embraces its **transit connections** and stands back from Nicollet Mall to allow for sidewalk café seating and a lively pedestrian landscape.

Stretching along Fifth Street between Nicollet Mall and Marquette Avenue, the 26-story, 254-unit tower offers a number of **luxury amenities**—including a spa, fitness center, and yoga studio—and is aiming for LEED Silver certification.



Project team: Opus AE Group, architect of record and structural engineer; Elness Swenson Graham Architects (ESG), design architect; Damon Farber Associates, landscape architect; Westwood, civil engineer; Opus Development Company, developer; Opus Design Build, design builder



In Town Talk, we let community leaders and other insightful people do the talking.

Surly Brewing Company's OMAR ANSARI talks about his company's plans to build a destination brewing facility in an old Minneapolis industrial park

BY JOEL HOEKSTRA

Its view of the Minneapolis skyline aside, the old potato-processing-factory site near the University of Minnesota wasn't Omar Ansari's first choice for relocating his company, Surly Brewing. A lifelong Twin Citian and a Macalester College graduate, Ansari, founder and president of the privately held venture, originally wanted to move his plant from Brooklyn Park to a spot on the Mississippi riverfront, where Minnesota's most historic beer brands—Grain Belt, Hamm's, and others—got their start more than a century ago.

But few riverside parcels were large enough to accommodate Ansari's dreams. In addition to growing the eight-year-old brewery, the businessman and his brew-minded partners intend to incorporate a restaurant and a beer garden. Which led them first to St. Paul—where they successfully lobbied the state legislature in 2011 to change a law that prohibited beer makers from selling product onsite—and then to an 8.3-acre parcel in Minneapolis' Prospect Park. On a

recent morning, just days before a groundbreaking ceremony for the new facility, Ansari walked the graffiti-littered, bulldozer-strewn site of Surly's future headquarters and talked about his grand plans to spend \$30 million-plus and countless hours to transform his brewery into a tourist magnet.

How will the new brewery be different from your current setup? Phase one will include a manufacturing facility, an outdoor beer garden that seats 500, and a beer hall that seats maybe 300, with food service both inside and out. And upstairs we're building the shell for the phase-two event center and restaurant.

We want it to be a "destination brewery." If you come, there should be different things to do and see. There should be different experiences throughout the space: sunken areas, open areas, tables under trees.

What were your sources of inspiration?

I'm a big fan of Stone Brewing out in San Diego. It's a brewery that has a restaurant with an outdoor

beer garden. It's impressive. I wanted something like that, something that didn't exist in Minnesota. People love to go see breweries. It's always been that way.

In Milwaukee, for example, all the parks are named after breweries because the breweries had parks, outdoor beer gardens where people could go on Sunday and have a picnic. The kids could run around, mom and dad could drink some beer. They were wonderful big gardens. They were literally part of the civic culture of the town. In most of Minnesota, the beer is pushed into the back room with a lot of cigarettes and darkened windows.

But this wasn't your first choice for a site? I was always hoping that we could be on the river. That's where Minneapolis' original breweries—like Grain Belt—started. But that didn't work out. It was hard to find a piece of land that was large enough.

>> continued on page 47

GROUNDBREAKER



GENSLER

LOCATION: Downtown Minneapolis
OFFICE OPENED: 2007
NUMBER OF EMPLOYEES: 17
www.gensler.com

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Workspaces say a lot about us. Join us on a tour of architecture offices and design studios around the state, and you'll see architects and designers in a whole new light.

STUDIO





The Health and Science Center at Lake Superior College in Duluth recently received LEED Silver certification.

KATE JOYCE

How do you get 31 associated colleges and universities on 54 campuses to reduce their energy consumption?

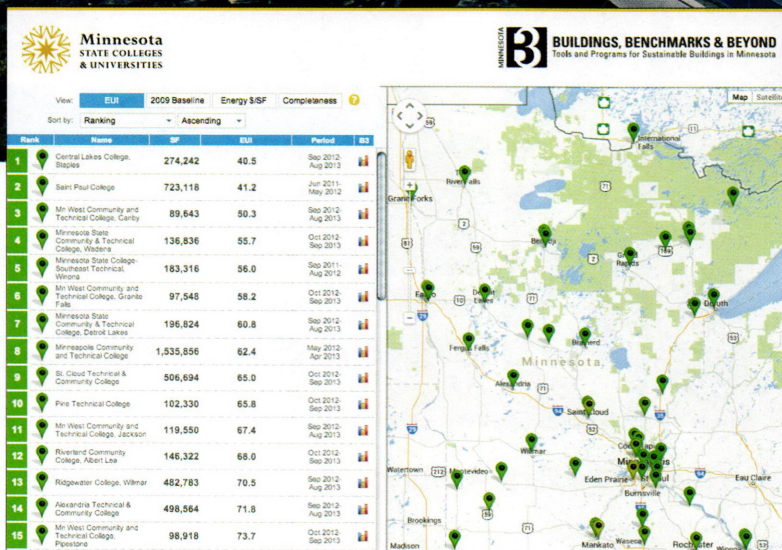
You start by measuring their energy use and showing each school how it's doing compared to its performance in years past, its energy targets, and its peer campuses. That's what the **Minnesota State Colleges and Universities (MnSCU)** system has been doing with help from the Weidt Group and LHB, and the results are eye opening.



EUI FOR MNSCU CAMPUSES, 2008-2011

The chart above shows the energy use intensity (EUI) of each of the 54 campuses from 2008 (blue bar) to 2011 (light gray). EUI is a measurement derived by dividing a building's or a campus' total annual energy use (in kBtu) by its square footage.

Understanding that "you can't manage what you don't measure," MnSCU commissioned the Weidt Group and LHB to collect and report energy data for all 54 campuses. Equipped with this information, the schools became more vigilant about their energy use and, in some cases, made building improvements to achieve greater savings. In just a few years, the campuses reduced their average energy use intensity (EUI) from 108 to 92. MnSCU's annual energy costs dropped from \$37 million to \$31 million over the same period.



MNSCU PUBLIC ENERGY PORTAL A key tool for achieving these energy reductions is a website that tracks and ranks the energy performance of all 54 campuses. The data, presented in a "dashboard" layout, is easy to glean and sort, and the rankings motivate each school to continually improve its energy behavior and management. The Weidt Group developed the site using the Minnesota B3 Benchmarking program.

Share your vision

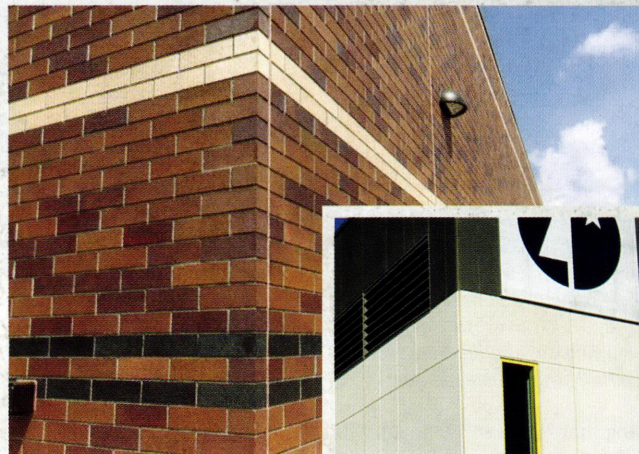
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BOROUGH AND PARLOUR

Location:

Minneapolis,
Minnesota

Clients:

Brent Frederick
and Jacob Toledo
(managing partners);
Tyler Shipton,
Nick O'Leary, and
Jesse Held (chefs)

Architect:

Elness Swenson
Graham Architects
www.esgarch.com

Principal-in-charge:

David Graham, FAIA

Project team:

Aaron Roseth, Assoc.
AIA; Heather Whalen,
AIA; Ann Fritz; Mark
Whitenack; Heather
Novak-Peterson

General contractor:

Scott Knutson

Historical consultant:

Hess Roise

Size:

5,000 square feet

Cost:

\$1.2 million

Completion:

January 2013

Photographer:

Brandon Stengel,
Assoc. AIA



"PEOPLE SAY THE ENVIRONMENT DOESN'T
OVERWHELM THE FOOD. I ACTUALLY
THINK THAT'S A GREAT COMPLIMENT."

—ESG'S AARON ROSETH, ASSOC. AIA

Borough's 2,500-square-foot footprint encompasses a dining room, a spacious bar, and an outdoor seating area built on a former loading dock. (Downstairs is Parlour, a bar run by the same owners and designed by the same architects.) Much of Borough's décor is made with reclaimed materials that match the neighborhood's feel: industrial, old, patinated with memories. ESG vice president Aaron Roseth, Assoc. AIA, says the design team was guided by a desire to bring out the history of the building, an 1880s warehouse recently converted into loft apartments. "It was really important that we didn't add much to it," says Roseth. "It was beautiful by itself."

The additions are understated: a wall of lumber, another of mirrors, some reused shutters. The beer pulls have a distinctly Old World mechanical look; the patio is dominated by a bar with an artist-commissioned zinc countertop. "We liked the idea that the metal would discolor with age, showing ring stains and scratches," says Roseth. "We think that's supercool."

Fitting the infrastructure of a modern restaurant into an historic building can be challenging. But ESG has worked on several eateries in the area as the neighborhood has continued to transition from industrial to mixed-use residential, Roseth notes. The firm's project list includes Bar La Grassa and Smack Shack (page 32) in the North Loop, the Pourhouse and Manny's Steakhouse downtown, and Cossetta's new expansion in St. Paul. (Borough's owners have also retained ESG to design two new restaurants in newly constructed buildings in Minneapolis' Uptown neighborhood: Falkirk



Top left and right: Borough's industrial shell is warmed up with inventive wood details, tableware décor, and an open kitchen. Above: Downstairs, Parlour offers diners a comfy spot for an after-dinner drink.

>> continued on page 49

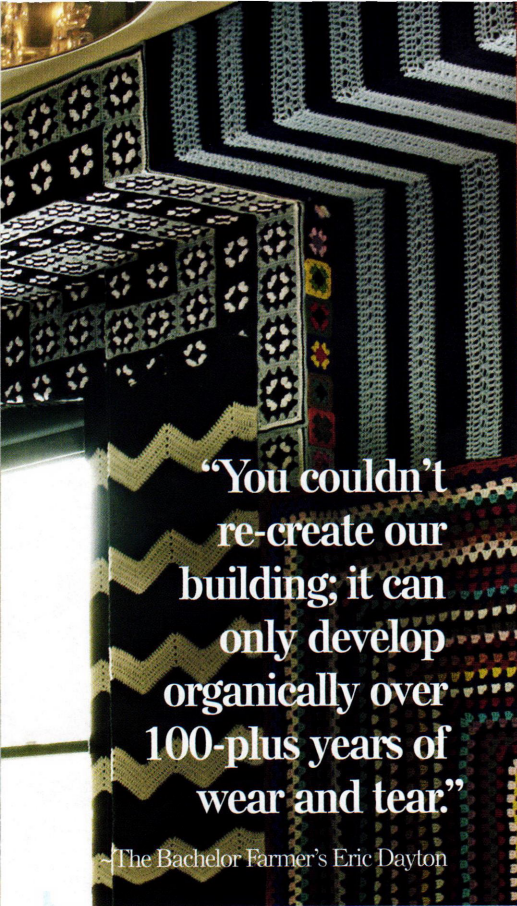


The Artful Bachelor

The Bachelor Farmer restaurant, Marvel Bar, and retailer Askov Finlayson settle artfully into an unpolished North Loop warehouse

BY AMY GOETZMAN

Bringing an old building back to life isn't always a matter of scrubbing and refinishing. If that were the case, the team at James Dayton Design would have started their renovation of the Marvel Rack Manufacturing building in Minneapolis' North Loop neighborhood by sandblasting away the ghosts of painted signage on the side of the building. But people like Eric and Andrew Dayton, brothers who opened the Bachelor Farmer restaurant in the old warehouse two years ago, can find a squeaky-clean expanse of brick anywhere. In a city that not so long ago was quick to pave over the past, it's much harder to find a building with the resonance and patina of history.



“You couldn’t re-create our building; it can only develop organically over 100-plus years of wear and tear.”

The Bachelor Farmer’s Eric Dayton



“You’re seeing the history of the building unfold when you see the layers of repairs, instead of everything just made to look new again,” says Robert Hunter, senior project architect at James Dayton Design. “When Eric and Andrew approached us with the idea of creating a combined restaurant and retail space, the trick was to accommodate those modern uses while embarking on a carefully considered restoration that would preserve the building’s authenticity.”

“It’s not a huge building, but it’s visually substantial,” says Eric Dayton. “And it had so much character, both outside and in. The wood floors, columns, and beams were incredible, as was the patina of the brick walls. You couldn’t re-create our building; it can only develop organically over 100-plus years of wear and tear.”

such as the thick, wide-plank floors became an inspirational spark for the new design. “It’s not an ornate building,” notes Hunter, “but it has an inherent quality we wanted to retain, so we did the restoration in a way that you wouldn’t know it had happened.”

The building needed significant work before the designers could finesse the interior spaces, which today house the Bachelor Farmer restaurant, Marvel Bar, and menswear retailer Askov Finlayson. That included adding steel reinforcing structure within some walls and updating the mechanical systems to accommodate a professional kitchen. Then the designers got to work.



OK, so no sandblasting, then. Instead, where the old walls needed work, the bricks were taken down one by one, then reinstalled in their original position. The low-slung two-story building had great bones, says Hunter; sturdy features

Simpatco textures ranging from the rough (hard-scraped paint on beams and columns) to the refined (delicate Scandinavian wallpaper) and the homespun (afghan wall coverings) domesticate this warehouse space.



"Every space reacts to the building first. That was very intentional," says Hunter. "But that didn't hamper the businesses at all, because they aren't about being flashy. The Bachelor Farmer was designed to be very humble and welcoming. We have those wonderful old floors, walls, and structure, and we designed the dining area to be really understated, unpretentious."

Interior designer Janet Gridley added eclectic lighting fixtures and wall hangings ("She bought afghans on eBay from all over the world" for the private dining space upstairs, says Hunter) and designed a blue-and-white, Swedish-flavored wallpaper pattern that beautifully counters all the rough-hewn timber in the main dining room. The simplicity of the space puts the focus on what's on the plates. "The food is the showstopper," says Hunter.

That same simplicity makes a striking backdrop for the rustic-chic goods at Askov Finlayson, at the front of the building. The products themselves become the décor. On the basement level, Marvel Bar is a "more visually saturated space than

>> continued on page 49

THE BACHELOR FARMER, MARVEL BAR AND ASKOV FINLAYSON

Location:
Minneapolis, Minnesota

Clients:
Andrew and Eric Dayton

Architect:
James Dayton Design, Ltd.
jddltd.com

Principal-in-charge:
James Dayton, AIA

Project lead designer:
James Dayton, AIA

Interior design:
Janet Gridley

General contractor:
McGough Construction

Size:
16,000 square feet

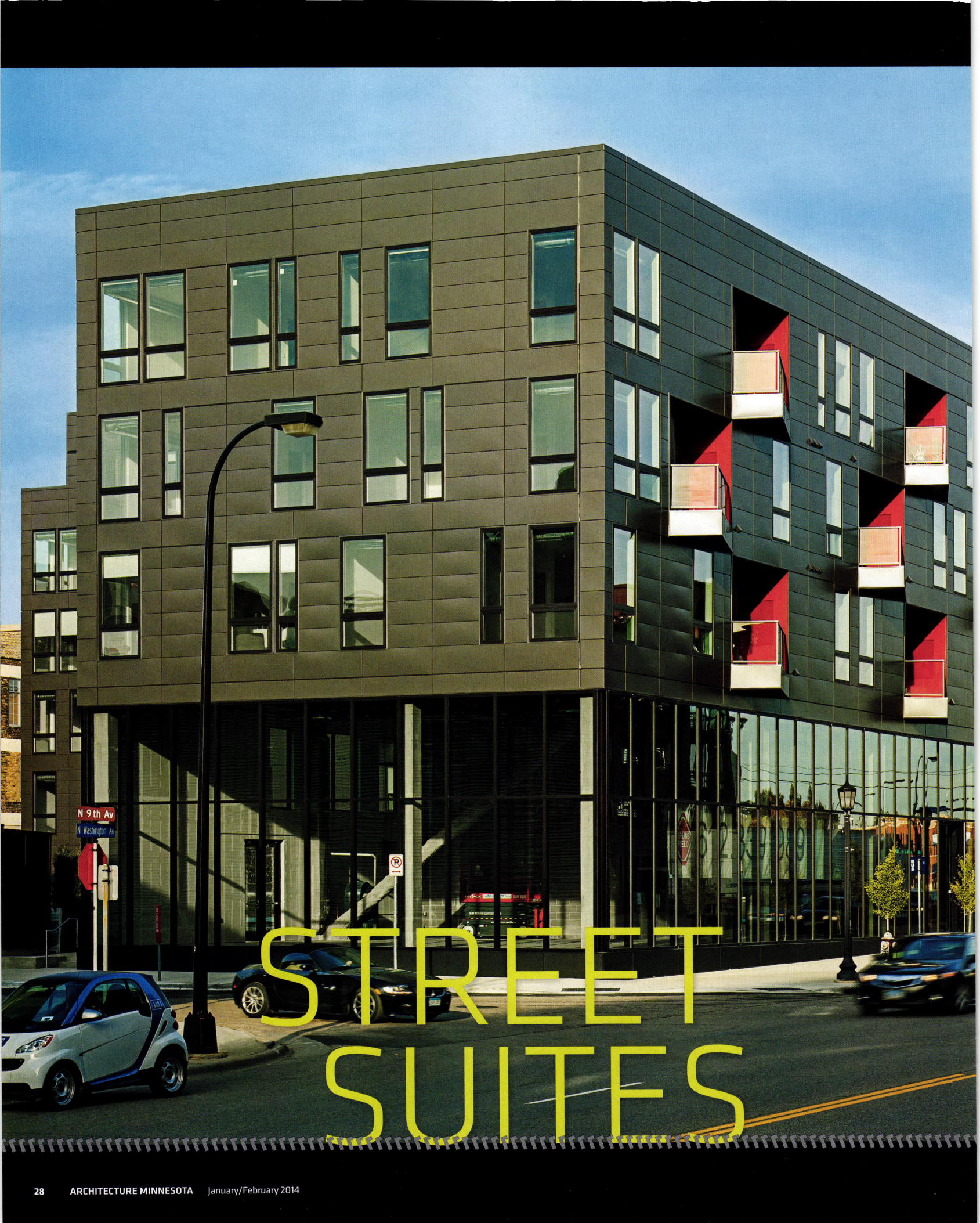
Completion:
August 2011
Photographer:
John Reed Forsman

"Every space reacts to the building first. That was very intentional."

—Robert Hunter, AIA



Above: In Askov-Finlayson's muted backdrop of brick and beams, the merchandise pops like a crayon box of color. Top: The effect is even more pronounced in Marvel Bar.



STREET SUITES

Brunsfeld North Loop stands out from the contemporary multifamily housing crowd

BY THOMAS FISHER, ASSOC. AIA

Multifamily housing in Minneapolis has fallen into a predictable pattern. Across the city, scores of six-story buildings have risen, clad in a collage of materials, with a concrete-framed first floor and wood-framed apartments above. While economics and demographics—as well as zoning and building codes—have driven this trend, other options exist, as Julie Snow Architects and its client, Brunsfeld America, have shown with their new development in Minneapolis' North Loop.

"Multifamily housing in Minneapolis all looks alike," says Vincent Lim, AIA, director of strategic initiatives for Brunsfeld America, "so design is now the differentiator." And the difference at Brunsfeld North Loop apartments is immediately apparent when you approach it. "We wanted a singular building, with a singular material," says

Julie Snow Architects design principal Matthew Kreilich, AIA, and so rather than the typical mélange of materials, the architects clad the building in a dark gray recycled-aluminum rain-screen wall, with red accent walls where the apartment balconies jut out from the building.

"We also wanted to play within the multifamily rule set," adds Kreilich. Instead of a one-story, concrete-framed first floor, they created a 22-foot-high retail space—tall enough to accommodate a mezzanine—to help energize the street. That height also allowed the architects and owners to do something few other multifamily projects do: Invite the public into the interior of the block. Kreilich and his team created a large opening in the building, with a paving pattern that leads from the curb to a covered public plaza with custom

The metal-paneled apartment building hugs the sidewalk and enlivens the street with its angled balconies with red sidewalls. The double-height commercial space along Washington Avenue also draws passersby into the building.



A public plaza penetrates the structure, leading to a rear terrace, parking lot, and community garden space. Custom benches and metal planters encourage people to gather, a rare retreat in an increasingly built-up part of town.

**BRUNSFIELD
NORTH LOOP**

Location:
Minneapolis,
Minnesota

Client:
Brunsfeld
America, Inc.

Architect:
Julie Snow
Architects, Inc.
[juliesnow
architects.com](http://juliesnowarchitects.com)

Design principal:
Matthew
Kreilich, AIA

Project designers:
Pauv Thouk, AIA;
Kar-Keat Chong,
Assoc. AIA

Energy modeling:
The Weidt Group
twgi.com

**General
contractor:**
Greiner
Construction

Size:
99,475 square
feet (total
building area)

Completion:
October 2013

Photographer:
Paul Crosby

**"WE WANTED TO DRAW THE ENERGY
OF THE STREET INTO THE BUILDING
AND ALSO GIVE BACK TO THE COMMUNITY."**

—VINCENT LIM, AIA, BRUNSFELD AMERICA



wood benches by Willie Willette Works. From there, the paving guides pedestrians to a series of tall planters that define outdoor gathering spaces and ultimately to a set of community gardens at the back of the site, behind the ramp to the underground parking. "We wanted to draw the energy of the street into the building," says Lim, "and also give back to the community."

That sense of largesse continues inside. A community room, a glass-enclosed exercise room, and generous public spaces and common areas containing the work of eight different artists, painters, and muralists all convey the owner's desire to appeal to the city's creative class.

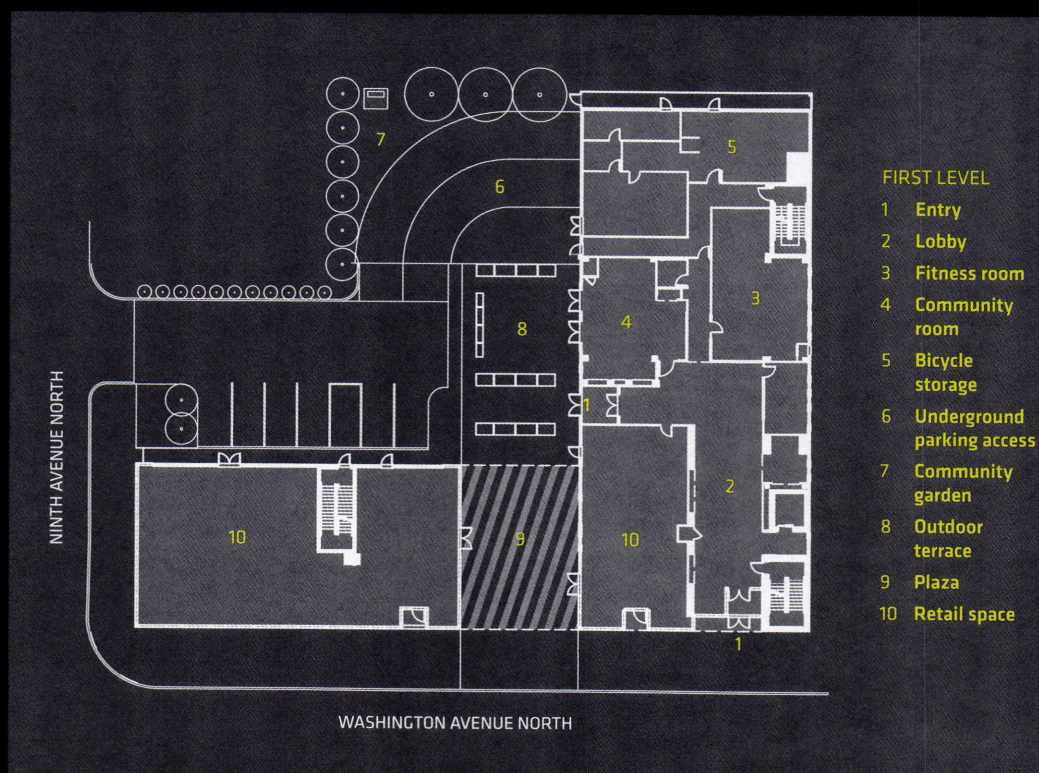
The building's appeal also lies in its 47 units, "no two of them alike," says Lim. Kreilich and his colleagues devised 21 different floor plans for the L-shaped building and 47 different arrangements of windows, balconies, and living spaces. Full-height windows and angled balconies provide expansive views up and down Washington Avenue. And a number of two-story penthouses, with private rooftop terraces, offer a dramatic vista of the downtown skyline.

The old saying that good architecture demands not only a good architect but also a good client certainly holds true here. "Vincent kept pushing the design," says Kreilich. "We both wanted it to be contextual in a contemporary way." Lim and Kreilich both worked at HGA in the early 2000s, and their alignment, architecturally and aesthetically, comes through in the clarity and consistency of this building.

For his part, Lim doesn't sound like a developer. "Our success," he says, "depends upon our doing something meaningful, doing what the site tells us to do, and having a long-term commitment to the building." The latter requirement is evident in the metal Brunsfield plaque that Lim set into the concrete sidewalk next to the building's front entrance. "This shows we're here to stay," he says. Minneapolisans can hope this level of quality and inventiveness in multifamily housing is here to stay as well. **AMN**



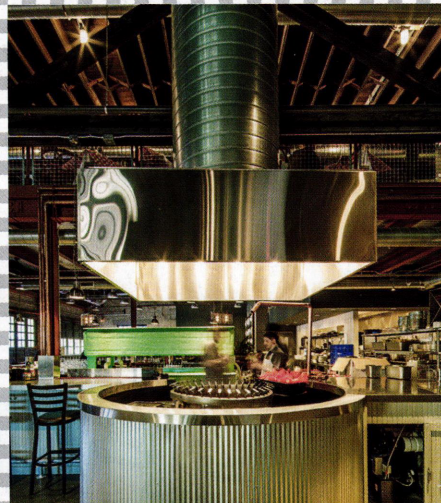
The interiors have a bright, clean quality. Tall windows bathe the apartments with daylight, and simple details give the units a modern demeanor. Artwork and custom furniture set a sophisticated tone in the lobby, echoing that of the entire building.



TRUCK to TABLE

By Camille LeFevre

Clockwise from top: Diners looking for a quiet, romantic venue won't find it in the high-energy, open-environment Smack Shack; the stainless-steel lobster boil; the long zinc-topped bar; lobster-mold artwork.



SMACK SHACK

Location:
Minneapolis, Minnesota

Clients:
Josh Thoma and
Kevin Fitzgerald

Architect:
Elness Swenson
Graham Architects
www.esgarch.com

Principal-in-charge:
Aaron Roseth, Assoc. AIA

Project team:
Heather Whalen, AIA;
Ann Fritz; Mark Whitenack;
Heather Novak-Peterson

General contractor:
Scott Knutson

Historical consultant:
Hess Roise

Size:
7,000 square feet

Cost:
\$2 million

Completion:
February 2013

Photographer:
Brandon Stengel,
Assoc. AIA



Josh Thoma grows his Smack Shack food truck into an indoor-outdoor seafood restaurant with a lively industrial spin

Back in the day, lobster was a big deal. For special occasions—say, New Year's Eve—you made reservations at the local supper club for a freshly boiled lobster delivered on a platter with plenty of melted butter. If you wanted lobster more often than that, you vacationed on the East Coast. Or you dined at the Red Lobster chain restaurant.

Then came food trucks—Josh Thoma's Smack Shack food truck, in particular. (A "smack" is what an open-hold lobster boat is called on the East Coast.) Instantly popular for Thoma's numerous original takes on fresh lobster, the food truck soon prepped its offerings in the kitchen at the 1029 Bar in Northeast, where the regulars decided they wanted lobster rolls, too. Cod? Lutefisk? Forget it. Twin Citians were clamoring for lobster.

Last year, Thoma grew into his ambitions while satisfying his following when the Smack Shack restaurant opened on Washington Avenue in the North Loop. Located in a former tractor-assembly factory annex loaded with character, the restaurant has decidedly un-chain-restaurant-like architecture and design. "Our goal was to find a focused theme for the restaurant that wasn't too over-the-top or kitschy," says Thoma.



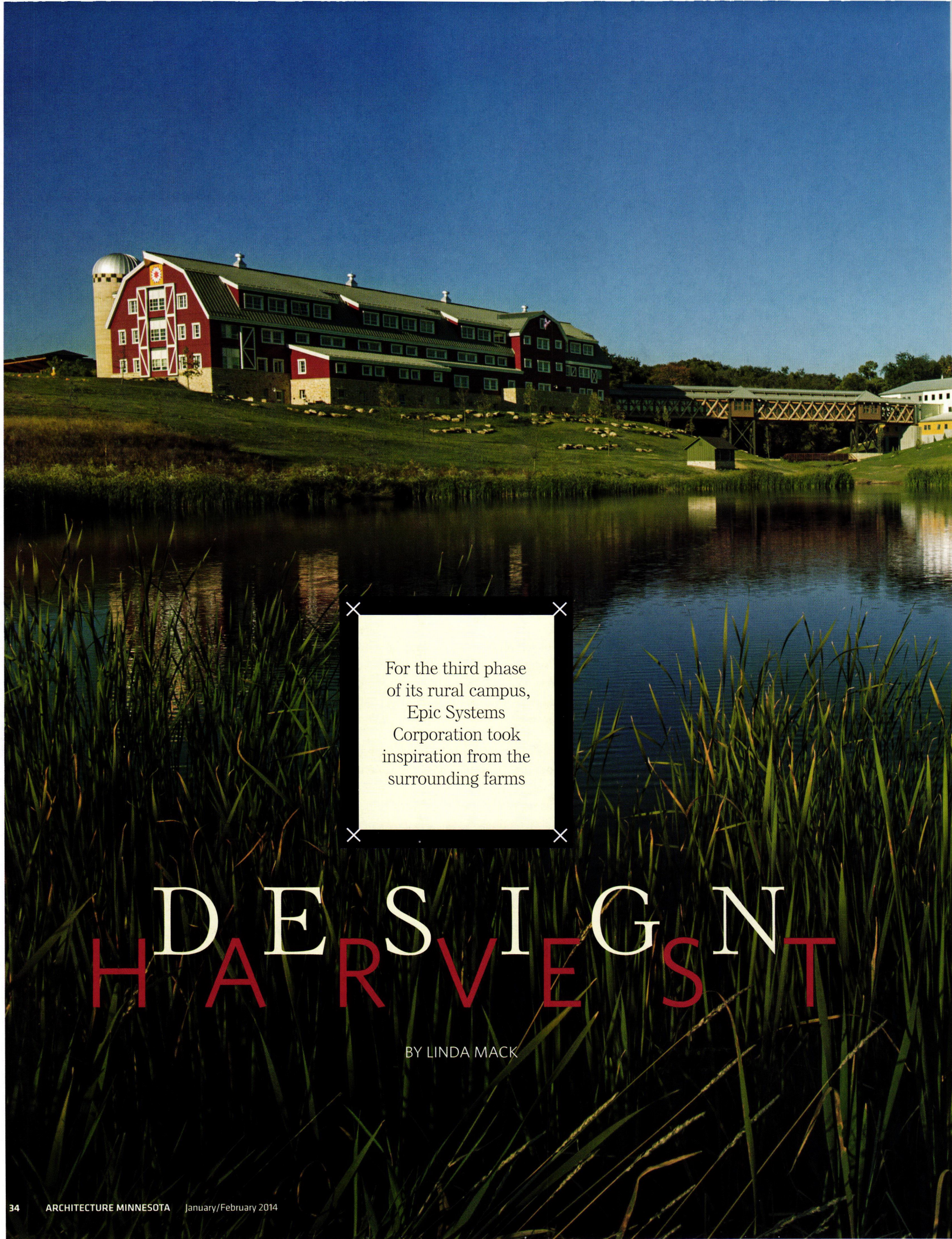
"You have to have restraint in a place like this, to reinforce the authenticity of the historic building and Josh's culinary expertise," says Elness Swenson Graham Architects (ESG) vice president Aaron Roseth, Assoc. AIA. Working closely with the Minneapolis Historic Preservation Commission (the building lies in the Minneapolis Warehouse Historic District) and the Minnesota State Historic Preservation Office, Roseth and his team brought the interior back to its essence, chemically stripping the brick walls, exposing the wood trusses, and refurbishing the concrete floor.

With federal and state historic tax credits, the design team replaced the large windows and the massive folding loading-dock doors.

>> continued on page 50

Left and top: The building's former loading dock was converted to a long, shallow patio, and now Smack Shack boasts some of the best outdoor seating in town.





For the third phase
of its rural campus,
Epic Systems
Corporation took
inspiration from the
surrounding farms

DESIGN HARVEST

BY LINDA MACK



In 1996, a scant 10 percent of American hospitals had converted to electronic records. That was the year Minneapolis architect John Cunningham, FAIA, met Judith Faulkner, CEO and founder of electronic medical records company Epic Systems Corporation. Faulkner needed space remodeled for her fast-growing company in Madison, Wisconsin. She was tripling the number of employees, from 100 to 300.

Today, Epic's corporate campus of two million square feet occupied by 6,000 employees tops the glaciated hills in Verona, west of Madison. Master planned and largely designed by Cunningham Group Architecture, it includes a 5,400-seat Learning Center for client training and the company's annual users' group meeting, an 11,500-seat auditorium that is entirely underground, 13 office buildings, a 600-seat cafeteria, and, yes, a tree house.



“What they do here—
designing medical
software—is very
serious business. But
it’s important that
the environment feels
playful and creative.”

John Cuningham, FAIA



For Epic’s newest buildings, Cunningham Group borrowed forms and materials from the surrounding Wisconsin countryside. A lattice-like bridge (above) stretches over the rolling landscape to connect the Barn (top) and the Shed (above).

In summer 2013, the third phase, dubbed the Farm Campus, opened. Its three office buildings borrow the shapes and materials of surrounding vernacular buildings—a barn, a shed, and a stable. The Barn features a gambrel roof, red barn siding, and a foundation of fieldstone reclaimed from nearby barns. The Stable is topped by a traditional cupola and sheathed in rich green and white board-and-batten siding. More contemporary, the Shed has large doors, board-formed concrete, and sections that look like they were added over time. A classic green tractor sits outside its main doors.

Faulkner “wanted to evoke this feeling of rural Wisconsin,” says Cunningham Group project manager Dan Grothe, AIA. “We made some literal moves, but we were also trying to be not so literal—to be playful.”

While John Cuningham’s mentor Ralph Rapson might be turning in his form-follows-function grave, Cuningham says there is a purpose to the admittedly retro design: “What they do here—designing medical software—is very serious business. But it’s important that the environment feels playful and creative. It’s part of their marketing.”

SETTING THE STANDARD

The whole headquarters, including the glassy Learning Center, the recently completed underground auditorium called Deep Space, and the tree house—a place to hang out and get inspired—is designed with that goal in mind. Tied together over the 900 acres by clear circulation paths, the campus architecture speaks to the 800 to 1,000 people who come every week for training, the future clients who come to see where the software is created, and the future employees who come to see what it would be like to work here.

LEARNING CENTER

PHASE 2: A regionally flavored material palette of wood, bluestone, brick, and copper unifies the second-phase buildings, completed in 2010. All employee parking is underground, to help the campus retain its pastoral character.

BARN

SHED

STABLE

PHASE 1: The original campus, completed in 2006, was designed to resonate with Prairie School architecture. Architect John Cunningham calls its Tree House a "low-tech environment in a high-tech world." In this standalone brainstorming space, beeping and buzzing cell phones are not allowed.



MIKE REBHOLZ



GEORGE HEINRICH

The curvy Learning Center, considered its own section of campus, opened shortly after the original campus was completed.

PHASE 3: While establishing new imagery, the Farm Campus follows the program and layout Cunningham Group established in the first two phases—long, narrow buildings that harvest plenty of daylight and keep the employees connected to the outdoors.



"They are competing with Google and Microsoft for employees. They use the architecture to reinforce that."

John Cunningham

**EPIC SYSTEMS
FARM CAMPUS**

Location:
Verona, Wisconsin

Client:
Epic Systems
Corporation

Architect:
Cunningham Group
Architecture, Inc.
cunningham.com

Principal-in-charge:
John Cunningham, FAIA

Project lead designers:
Jack Highwart, AIA;
Mary Hong, Assoc. AIA;
Shawn Olson, Assoc. AIA

Landscape architect:
Cunningham Group
Architecture, Inc.

General contractor:
J.H. Findorff & Son, Inc.

Size:
320,000 square feet

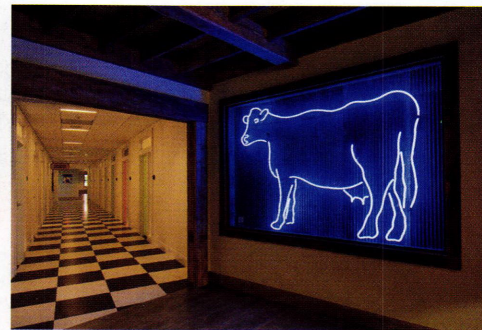
Completion:
July 2013

Photographer:
Dana Wheelock

The "feature stair" in the Barn is called the Hayloft. Like the building themes, the feature stairs create a strong identity for each building and its employees.



*Right: A deconstructed International Harvester tractor decorates the Shed's feature stair.
Below: Part of the Barn morphs into a farmhouse with a wrap-around porch—a perfect spot for hanging out or brainstorming.*



*Above: A neon cow marks the entry to the black-and-white-tiled corridor dubbed the Creamery.
Below: A colorful rotunda tops the Stable's feature stair.*



“Even though it’s a very large campus, the design isn’t repetitive, so you’re not a cipher working in building 1203. People love that.”
John Cunningham

“They are competing with Google and Microsoft for employees,” says Cunningham. “They use the architecture to reinforce that.”

Cunningham Group’s design for the original campus, executed with architecture firm ZGF out of Seattle, drew on southern Wisconsin’s Prairie School tradition. The long, narrow brick and limestone office buildings feature hipped roofs and wide overhangs. It opened in 2006 with 1,500 employees and now houses 2,500. Since then, Cunningham Group has designed the glassy 700,000-square-foot Learning Center, which traces the site’s contours; the cafeteria; and the entire second phase of the campus, which houses 2,200 employees in regionally inspired buildings of wood, bluestone, brick, and copper. It was completed in 2010.

The campus layout is as important as the architecture to the Epic Systems culture. Buildings are long and narrow to harvest daylight, they are grouped together so employees can easily interact, and outdoor spaces invite people outside to both contemplate and recreate. All 4,100 parking spaces are underground, and the glacial hills also hold more than 2,000 geothermal wells.

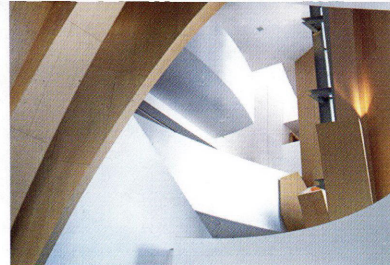
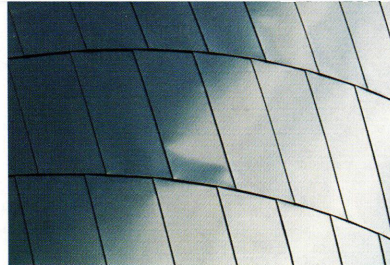
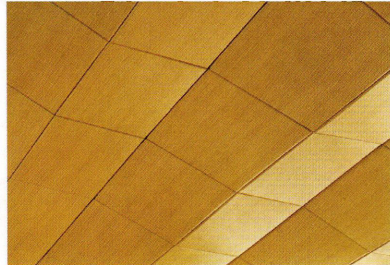
ACCELERATION

In September 2011, just after Epic Systems’ annual users’ group meeting, Faulkner first talked to John Cunningham about the latest expansion. “They were planning the campus in-house, and Judy said she wasn’t excited about it,” Cunningham recalls. “‘What do you want?’ I asked. ‘I’d like a farm,’ she said.”

But she needed it fast. In June 2013, 1,000 employees moved into the three new office buildings. “The 21 months it took from concept to completion wouldn’t have been possible without our knowing



>> continued on page 51



MATERIAL SCIENCE

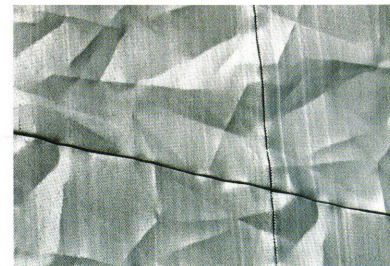
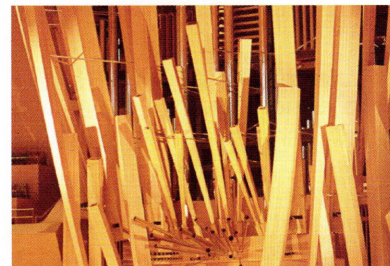
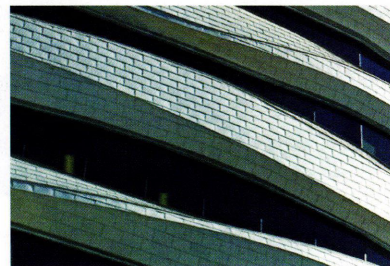
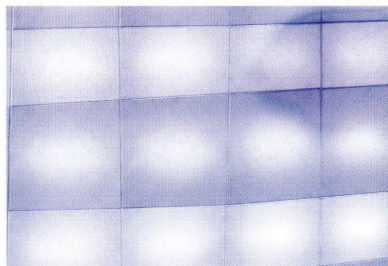
BY JOHN COMAZZI



SEYYOND ENCLOSURE

Mobile, organically shaped
office partition/meeting pod
with programmable LED lighting

SEYYOND



Architecturally notable buildings and interiors often come in complex shapes and materials. Their boundary-pushing designers often come to Minnesota to work with specialists in innovative framing techniques and material fabrication.

I recently shared a meal with Neil Meredith, a former colleague of mine who now works for Gehry Technologies, an offshoot of Frank Gehry's architecture practice. Neil was in the Twin Cities on business to meet with a variety of companies that specialize in innovative fabrication technologies and material assemblies. Gehry Technologies is a consulting firm that provides integrated design solutions and project delivery assistance to architects, engineers, and contractors working on complex projects—

buildings, for example, with dramatically curved facades or interior walls. Over dinner, Neil explained that Minnesota is a hotbed of material manufacturers and fabricators that help to make these complex buildings possible.

The more Neil spoke, the more I realized there was something unique about the development of these firms in Minnesota. First and foremost, they have all been willing to take risks and engage with designers working on unconventional projects, and this in turn has forced them to rethink their own approaches to design and project delivery. Second, many have made significant breakthroughs by transforming rather ordinary materials and building systems in extraordinary ways.

These companies, it turns out, are quietly revolutionizing the role of materials research, fabrication, project delivery, and construction sequencing for architects and builders alike. And while many of these firms have deep roots in Minnesota's manufacturing base, they represent an altogether different breed of fabrication shop than those of the first generation of manufacturing.

Eager to gain a competitive edge among their peers in an increasingly dynamic global building industry, Minnesota-based companies such as M.G. McGrath, Spantek, Radius Track Corporation, Enclos, Permasteelisa Group, and Liberty Diversified International have developed new

and innovative applications of their original product lines, or have created new product lines and processes altogether. All have retooled their operations to integrate digital technologies and parametric design into their production cycles. (Parametric modeling streamlines design and fabrication by embedding quantitative and qualitative information in the digital model so that the information is automatically updated when changes are made to any of the digital components.)

In many ways, this new generation of fabricators is getting out ahead of designers by anticipating their needs before they arise. In fact, many of these companies consult with architects earlier in the project timeline than ever before, or even have designers on staff, to help direct research and development.

RYAN FRENCH



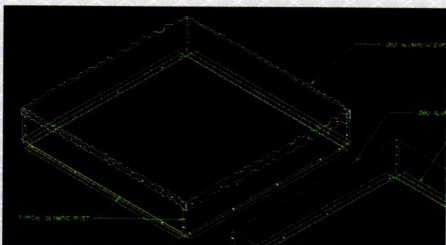
WALKER ART CENTER EXPANSION
Herzog & de Meuron Architekten
Minneapolis, Minnesota, 2005
*Expanded aluminum by Spantek;
aluminum framing and fabrication
of the expanded aluminum panels
by M.G. McGrath*

FEATURED FABRICATOR

M.G. McGrath

Founded in 1985, this Maplewood-based sheet-metal company specializes in fabrication, installation, and distribution of numerous custom metal types and finishes for a wide range of architectural projects.

IMAGES PROVIDED BY M.G. MCGRATH



MARK LASALLE, M.G. MCGRATH





U.S. LAND PORT OF ENTRY

Robert Siegel Architects
Calais, Maine, 2009

*Expanded aluminum by Spantek;
aluminum framing and fabrication
of the expanded aluminum panels
by M.G. McGrath*

Mike McGrath says that working with Studio Daniel Libeskind on the Denver Art Museum's custom titanium shingles forced his family's sheet-metal shop to rethink its entire operation.

Risk and Reward

These firms are not simply providing easier, faster, and less expensive solutions for traditional design and construction challenges (although they do that, too). Rather, they are showing that investing in research pays off in not only new approaches to design and construction but an expansion in the scope of their practices. By taking this ambitious tack, they have been able to transform the core of their operations while anticipating, if not outpacing, the aspirations of the designers and architects with whom they work.

"Manufacturers and fabricators have so much expertise to offer designers throughout the design process," says HGA project architect John Cook, FAIA, who has worked with Spantek and M.G. McGrath on several projects. "I find it absolutely fascinating to visit a shop when mockups are in production and to see all of the processes in play to find solutions to the challenges of fabrication and construction. The knowledge flows in both directions, and we take the lessons learned from one project into the next."

As a result of their research and investment in new technologies and applications, all of the companies interviewed for this article have seen an increase in their projects and product lines over the past two decades, and all foresee even more. Furthermore, their willingness to innovate and take risks has led to collaborations with some of the world's most celebrated architects, including Frank Gehry, Herzog & de Meuron, Daniel Libeskind, Sejima and Nishizawa, and Moshe Safdie.

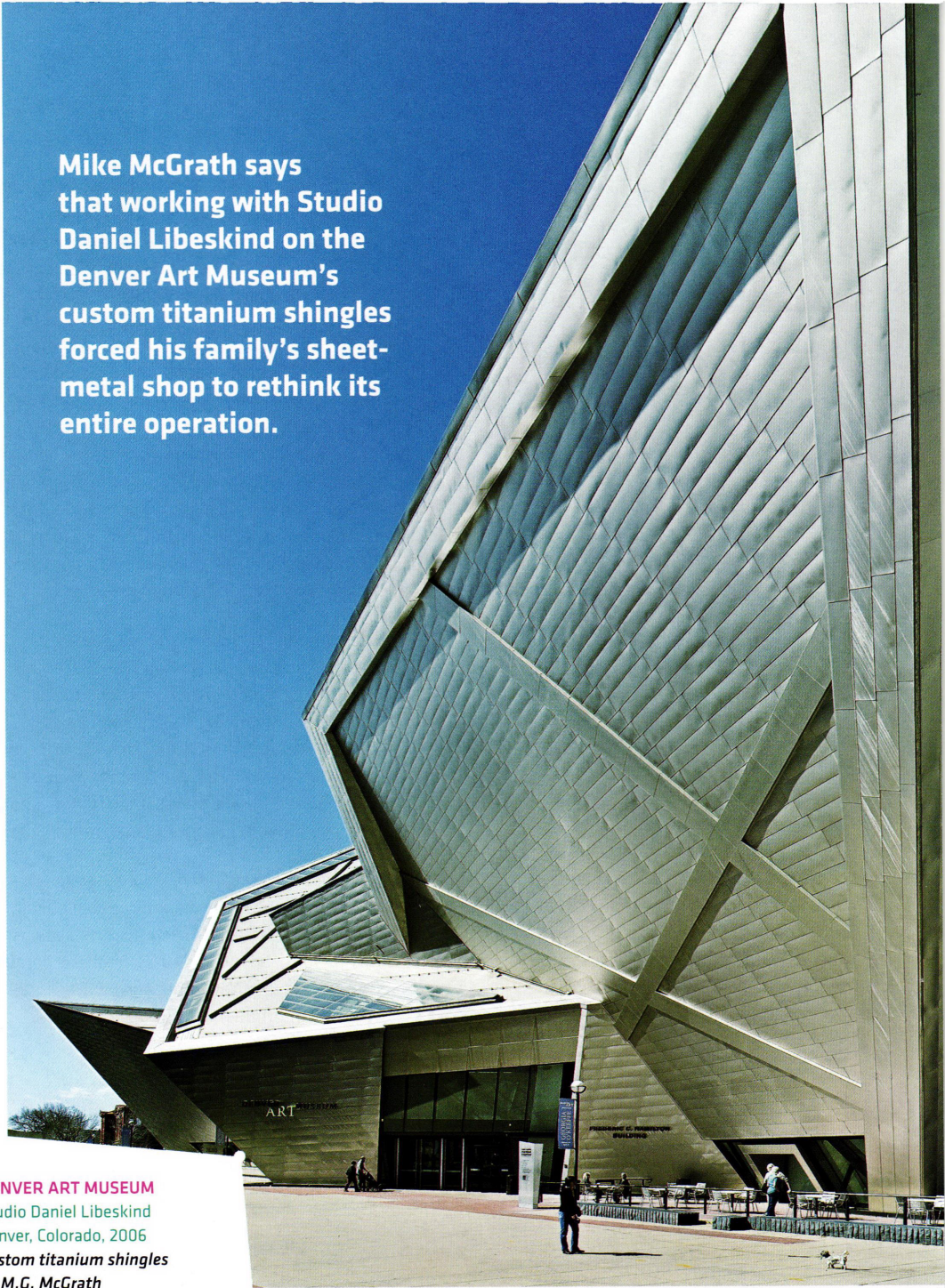
Mike McGrath, president of M.G. McGrath, Inc., says that working with Herzog & de Meuron and HGA on the Walker Art Center's anodized

DENVER ART MUSEUM
Studio Daniel Libeskind
Denver, Colorado, 2006
*Custom titanium shingles
by M.G. McGrath*

expanded aluminum panels, and with Studio Daniel Libeskind on the Denver Art Museum's custom titanium shingles, forced his family's sheet-metal shop to rethink its entire operation. "The needs and the interests we were seeing were in the areas of complex geometries and mass customization, so we made new hardware and software purchases and retooled the technology in our shop to talk between machines," he explains. "This entailed significant allocations of time and resources and required us to hire a lot of new people to run the machines, write the software scripts, and forge new partnerships with firms like Gehry Technologies."

Ordinary to Extraordinary

Some innovations in design and project delivery, such as the ones implemented by M.G. McGrath, come at great expense. Others come by pushing rather ordinary materials and processes to new and extraordinary ends. Architect Chuck Mears, FAIA, founder and chief design officer of Radius Track Corporation, took the latter route in 1996 while operating a construction company specializing in commercial interiors. The firm had been commissioned to develop a curve-filled expansion of an Atlanta restaurant in time for the Summer Olympics that year, and Mears knew that "cutting and strapping straight steel stud and track

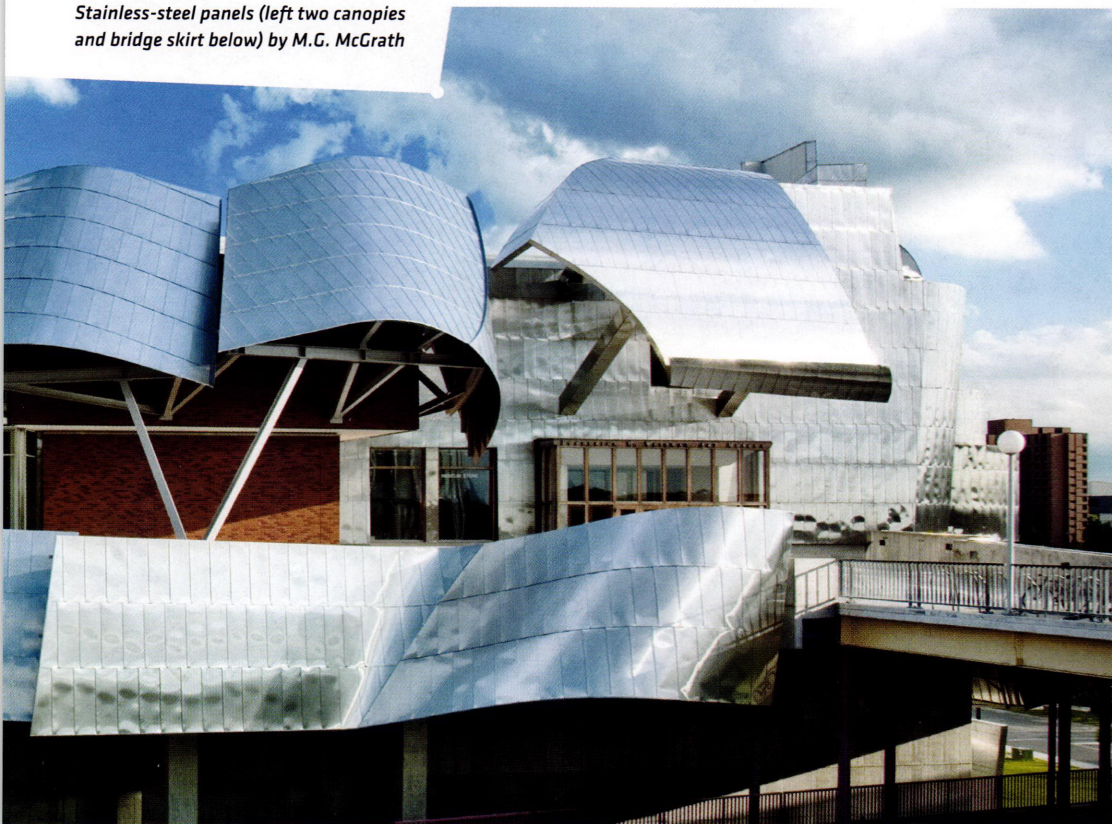




**EDMONTON INTERNATIONAL
AIRPORT CONTROL TOWER**
Gehry Technologies
Edmonton, Alberta, Canada, 2012
*Facade framework components
by Radius Track Corporation*

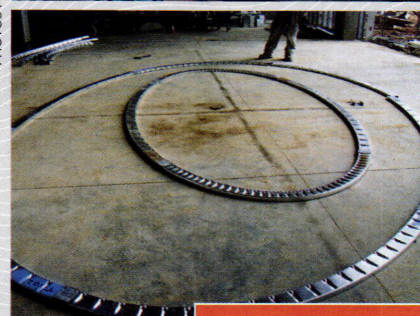
WEISMAN ART MUSEUM EXPANSION

Gehry Partners
Minneapolis, Minnesota, 2011
*Stainless-steel panels (left two canopies
and bridge skirt below) by M.G. McGrath*



RIK SFERRA, COURTESY OF WEISMAN ART MUSEUM

PHOTOS PROVIDED BY RADIUS TRACK

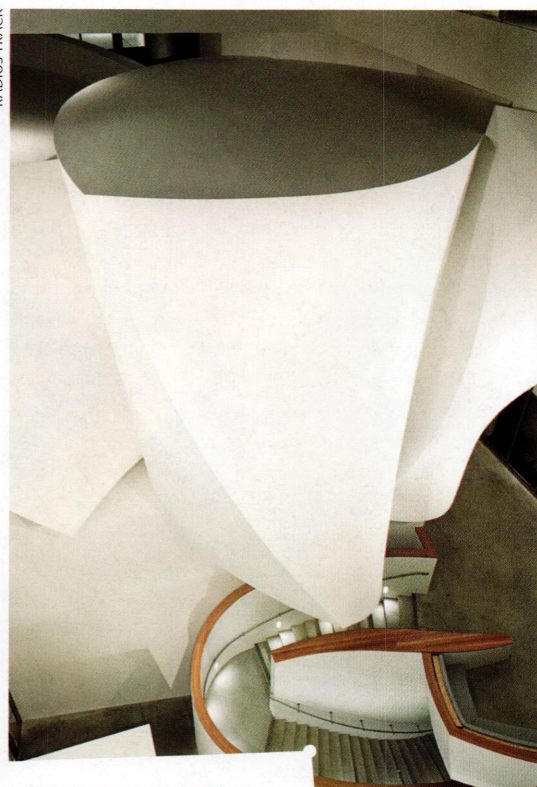


FEATURED FABRICATOR

Radius Track Corporation

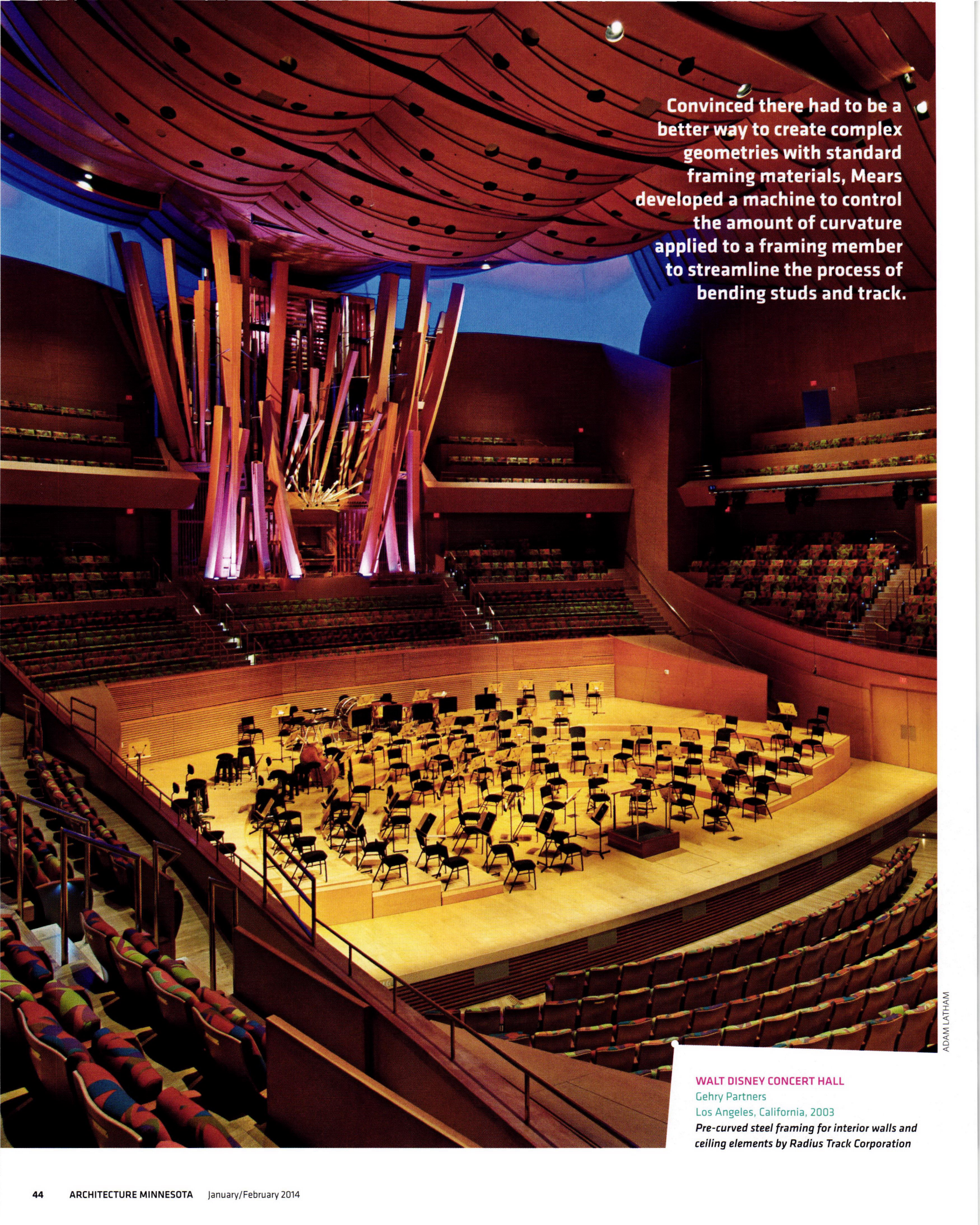
This Minneapolis firm knows "the art and science of simplifying the curve." Its offerings include BIM and 3D modeling services, custom curved framing, tools for forming curved studs and track, and hand-bendable framing materials.

RADIUS TRACK



NEW WORLD SYMPHONY

Gehry Partners
Miami, Florida, 2011
*Interior framing materials
by Radius Track Corporation*



Convinced there had to be a better way to create complex geometries with standard framing materials, Mears developed a machine to control the amount of curvature applied to a framing member to streamline the process of bending studs and track.

WALT DISNEY CONCERT HALL

Gehry Partners

Los Angeles, California, 2003

Pre-curved steel framing for interior walls and ceiling elements by Radius Track Corporation

ADAM LATHAM

members to make them into curvilinear forms" would jeopardize the project's tight schedule.

Convinced there had to be a better way to create complex geometries with standard framing materials, he developed his own machine to control the amount of curvature applied to a framing member to streamline the process of bending studs and track. After a bit of experimenting, tinkering, and testing with his new machine, Mears was able to produce, with great precision, all of the custom parts needed to frame the entire space in only three days. His new bending machine worked,

and it was easy to use at the job site. In addition to generating precisely curved stud and track, it reduced construction debris compared to the traditional snip-and-strap method.

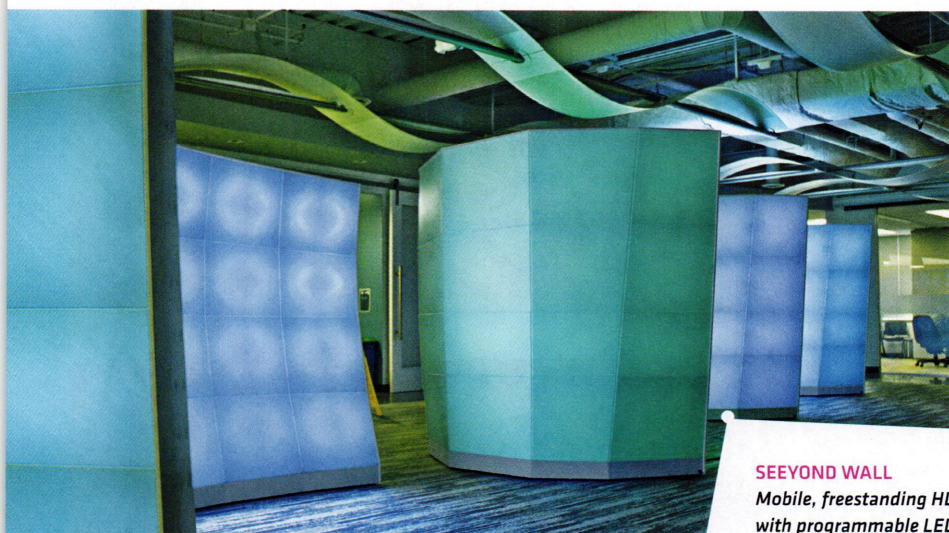
Before the project started, Mears applied for a patent on his machine design, and within months Radius Track was advertising new products and services to roll, crimp, and bend steel track and stud into simple arcs or compound custom shapes. The firm went on to design and supply framing materials for such complex projects as Walt Disney Concert Hall in Los Angeles and New World Symphony in Miami, both designed

by Frank Gehry. More recently, it produced components of the facade framework for the new Edmonton International Airport Control Tower, in cooperation with Gehry Technologies. In many ways, Radius Track offers architects and designers the tools to rethink and rework the Euclidian geometries and dimensional constraints that define many of our most common building materials.

Spantek and Liberty Diversified International (LDI) offer similar case studies in the rich opportunities that come from rethinking and reworking common industrial materials and processes. Spantek, which supplied the expanded aluminum for the Walker Art Center addition, worked closely with that project's designers to create the material properties that would give the panels a proper balance of structural fitness and visual effects. This was one of the first applications of a Spantek product as a finished architectural material, and it led to numerous other architectural commissions.

Fueled by the entrepreneurial spirit of its chairman and CEO, Mike Fiterman (grandson of the company's founder, Jack Fiterman), LDI took a chance on an innovative use of corrugated high-density polyethylene (HDPE), the same material used to make the U.S. Postal Service's ubiquitous white plastic mail bins. Collaborating with product designers and inventors Jonas Hauptman, Walter Zesk, and Paul James, the company reworked the

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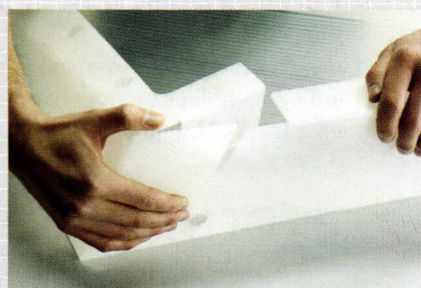
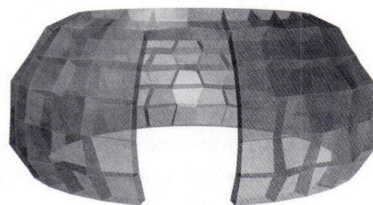
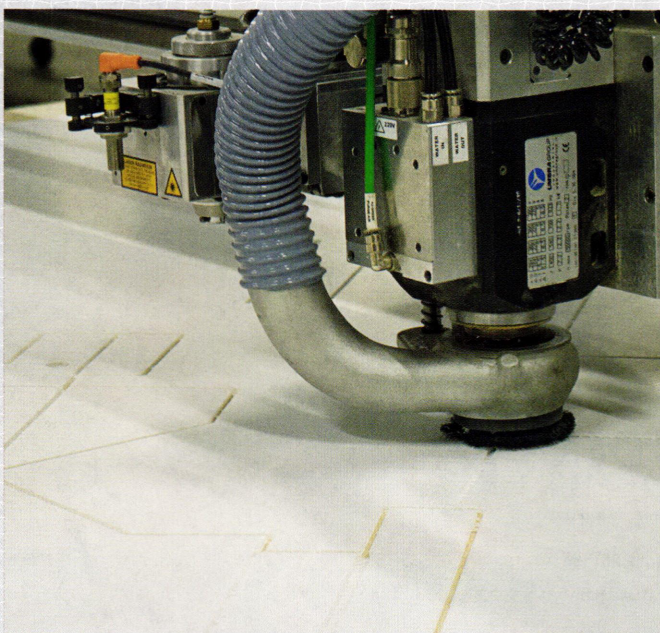
SEAYOND WALL

Mobile, freestanding HDPE walls with programmable LED lighting

FEATURED FABRICATOR

Seeyond

A Liberty Diversified International (LDI) company based in Minneapolis, Seeyond designs, manufactures, and installs self-structuring walls, ceilings, and enclosures composed of blocks of corrugated high-density polyethylene (HDPE).





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Groundbreaker

<< continued from page 15

What were your requirements? We looked at 80 sites. Size was a big issue: We needed over six acres. But we also needed to be in a place that could handle semi traffic. We are a manufacturing facility, so there's a lot of in and out. We also needed space for the restaurant and for parking needs.

We couldn't box ourselves in. I've seen too many breweries that boxed themselves in and weren't able to handle expansion. They succeed, and when they want to expand, they have to pay three times the value of the land next door because the owner knows he has them. We needed a site that we could grow into. In fact, there is the potential for another building on our site—a packaging building.

The location is near the University of Minnesota. There's a bike trail that runs just south of the site, and one of the stops on Metro Transit's soon-to-open Green Line is just a few blocks away.

Coincidence? I've always said this will never be a world-class city until there's transit. You don't rent a car in Paris. When you go to London, Munich, or Tokyo, you ride around on public transit.

It's really important to have transit options. The only way you can get to our current facility in Brooklyn Center is by car. We wanted to be close to light rail for employees. For example, we'll probably have 100 service people working with our restaurant. A lot of those people don't have cars. They take public transit.

Light rail is great for tourists, too. You can come in from Elk River or from the Mall of America and not have to drive—just take light rail and the Northstar line. And bike transit has just exploded in recent years. We want to give people as many options as we can. There's even a hotel within walking distance if you need it.

But there can also be challenges building in the city.

True. Our site is a brownfield site. It's dirty. We realized we would have to get some redevelopment dollars from the county and the state to deal with the environmental issues. The soil is bad, so the buildings will need to be on pilings. We had a lot of challenges figuring out where we could put the buildings. The process made me realize there are challenges that come along with the benefits of being in the city—a lot more neighbors, more regulations.

Why did you choose HGA? Steven Dwyer with HGA brought a vision to the project that we really loved.

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Groundbreaker

<< continued from page 47

He had a different way of doing it, and he seemed to understand what we were trying to do with the site.

He went and toured Stone [Brewing] before we interviewed. He spent an afternoon analyzing it, taking the tour, going into the garden, and just sitting and watching people using the space. So when we got together, we mostly talked about Stone and what works there. How could we take what works in San Diego and apply it to Minnesota, even though these are two different climates?

Have you had prior experience with a design process? I remodeled my house.

Design-wise, what were you looking for? I like clean lines, steel, and glass. I'm not a traditionalist in any way. I've never liked old-timey stuff.

How did budget affect design? At one point, shortly after Christmas, Steven came into the office and we blew up the design. It just wasn't working. We had to figure something out. It was too big, too costly. And suddenly we came up with the idea of moving the fermenters outside. Bam! There it all kind of came together.

Initially we were building a big box and trying to shove everything inside it. But the size of the box was being dictated by the size of the fermenters. They're 40 feet tall. So it was a big box! There was an awful lot of volume that wasn't needed.

So we began to look at moving the fermenters outside, which changed the slope of the roof and the shape and the form of the buildings. It gave the building a distinct profile. Now you'll know: That's the Surly building.

The final design was different from the designs you floated at the legislature. Many people claimed there was a bait-and-switch. Did the passionate reaction surprise you? Yeah, I was surprised. But you can't take comments in online forums all that seriously. And I take pride in the fact that it was the most commented-upon architectural piece in the *Star Tribune* in the past 20 years.

What are your hopes for the new facility?

We weren't looking just to build a factory and slap a restaurant on it. In everything we've done, we've tried to do it best, whether it's brewing beer or food service. The same is true for building something like this: How often do you get the chance to do something like this? We want to make it as awesome as we can. **AMN**

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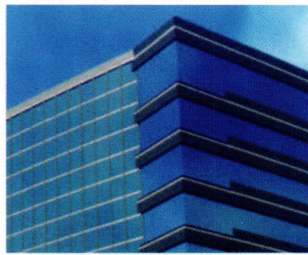
Old World/New Eatery

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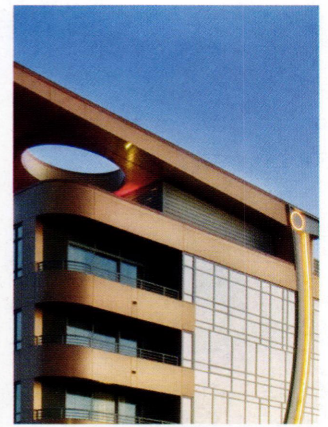
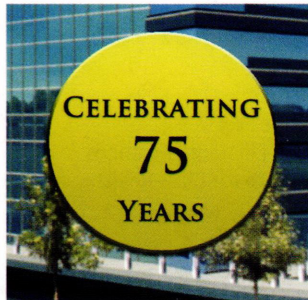
and Marche in Lime Apartments, and Coup d'État in the Walkway.)

While dining establishments are a relatively new area of growth for ESG, which long focused on hotels and housing, Roseth says restaurants and bars are a natural extension of his firm's work. As neighborhoods like the North Loop add more housing, other amenities are needed as well: restaurants, bars, entertainment venues. What's more, multifamily housing developers are keen to bring the energy of a design-forward restaurant or bar into their projects.

Back at Borough, the energy is about food, but the place enhances the passion. "People say the environment doesn't overwhelm the food," says Roseth. "I actually think that's a great compliment." **AMN**



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The Artful Bachelor

<< continued from page 27

the Bachelor Farmer," says Hunter; here, more colors and more patterns play together on the walls and lounge furniture. You have to look twice to get it, but the bar itself is made from common-grade plywood, polished to gleam. "It's a humble material, and that matches the material sensibilities of the building, even though the fixtures and furniture elevate it," says Hunter.

The ethos of the project—preserving and enhancing the spirit of the original building—has made it popular with neighborhood residents. "People really appreciated that the building was being restored rather than replaced," says Hunter. "The North Loop missed some of the earlier waves of redevelopment, so there is a meaningful authenticity in the neighborhood that many people really treasure."

"One of the best moments for me," Eric Dayton recalls, "was when I saw a Craigslist ad for a nearby apartment and the headline was 'Walking Distance from the Bachelor Farmer.' We set out to create something of value for the neighborhood and for Minneapolis. I hope we've succeeded." **AMN**



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Truck to Table

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Inside, a new steel staircase with galvanized railing leads to a new mezzanine that fits cozily between two trusses for more intimate dining. Historic preservation guidelines dictated that the mezzanine structure float within the existing structure without any direct connections.

The space is surprisingly casual for such a traditionally upscale food specialty. From the front entrance, diners pass through a narrow hallway where, on one side, large graphics trace the origin of the word *smack* and, on the other, a glass-walled cooler for beer kegs comes into view. The lobster boil is straight ahead, steam rising deliciously from a stainless steel tank. The bar is to the left, and the main dining area is farther back. In warmer weather, diners spill out onto the long loading-dock patio on the southeast side of the building.

The bar and restaurant are furnished with zinc-topped bars clad in white pickled wainscoting. The dining tables are all surrounded by one of several styles of wood chairs, including some from the old Thunderbird Hotel in Bloomington, Minnesota. Like the trusses, the copper piping, ductwork, and lobster boil hood are all exposed.

On the walls are photographs Thoma and Roseth shot during a design research trip to the East Coast. "It's not too often that designer and client get to travel together, to really touch and feel what we want to use as design elements," says Thoma. The décor also includes lobster traps from the restaurant's first catch (the traps had to be run through a car wash several times), a mosaic of lobster molds framed with barn wood and hardware, and glass shelving showcasing bottles of Thoma's relishes and pickles.

"There are always mechanical, plumbing, and other restraints when working with an old structure," says Roseth. "But I love projects in historic buildings. The challenge of taking an authentic space and embellishing it with an integrated program of graphics, materials, architecture, and interior design that highlights Josh's food and the dining experience he strives for is what we're most proud of with this project. It's all about creatives collaborating." **AMN**

Lake Vermilion State Park

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Design Harvest

<< continued from page 39

them as well as we do," says Grothe, who has worked on the Epic Systems project since 2009.

The layout of offices, conference rooms, and break rooms established in the earlier buildings—and based on everything from team size to how long it takes to walk to a conference room—was repeated. So was the use of the "feature stairs," a central staircase that navigates the grade changes and lends an identifiable theme to each building. The stair of the Shed, whose interior was designed by LSC Design Studio of Seattle, features a deconstructed International Harvester tractor mounted on the wall. The Barn's stair recalls a hayloft. The Stable's stair, part of an interiors scheme by H. Krueger & Associates of Madison, is an elaborate, colorful spiral.

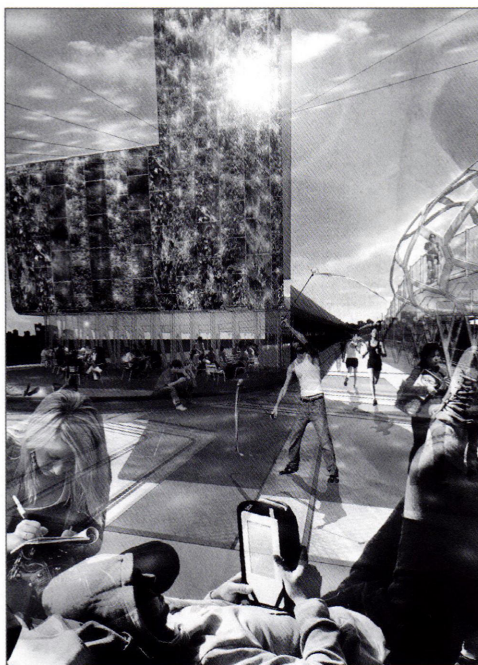
While the first two campus phases included quirky touches such as themed conference rooms, a slide instead of a stair, and art fair booty adorning conference rooms and lobbies, the new buildings take the quirkiness to a new level. One end of the Barn morphs into a farmhouse, complete with a gabled roof, shuttered windows, and a wrap-around porch. An exit stair is housed in a silo. A corridor's black-and-white-checkerboard floor recalls that of a creamery.

"Even though it's a very large campus, the design isn't repetitive, so you're not a cipher working in building 1203," says Cuningham. "People love that."

And, by 2015, some Epic Systems employees will be able to say they work in the Wizard's Academy. A fourth campus phase is under way, and the theme is Oxford and Cambridge University Collegiate Gothic. With 1,500 people in five buildings, it will be a bit larger than the Farm Campus.

How big will Epic Systems grow? Faulkner "cheerfully says she has no idea," Cuningham reports. One of the largest medical software companies in the world, Epic Systems has gone international with clients in South Africa, Singapore, Denmark, and Saudi Arabia.

"Judy's almost disappointed that they have to have offices in Europe," says Cuningham. "She's very proud of what they've built here in the Midwest countryside." **AMN**



Landscape Architects

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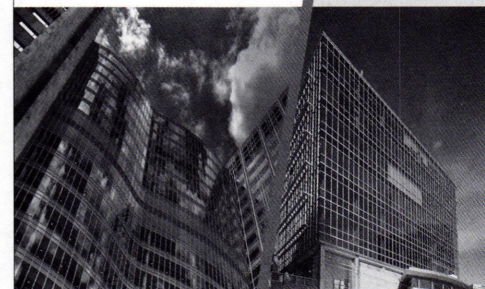


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Material Science

<< continued from page 45

highly durable and lightweight material through the CNC (computer numerical control) box cutters already in use in its facilities to create a system of customizable building blocks for unique wall and ceiling applications, as well as freestanding interior enclosures.

The eye-catching product line, produced by LDI subsidiary Seeyond, is an inspired blend of high and low technology: Seeyond chief designers Justin Berken and Khanh Nguyen use sophisticated parametric modeling programs to customize, fabricate, and install the systems, which are based on the rather ordinary processes of box cutting and folding.

Why Minnesota?

How did so many material specialists come to develop in and around the Twin Cities? Minnesotans certainly demonstrate a high level of appreciation and expectation for quality design, craft, and attention to detail in the built environment. And our highly educated design, engineering, and manufacturing workforce no doubt plays a critical role in the success of these companies. But perhaps the most intriguing explanation is one proposed by Gehry Technologies' Neil Meredith: Our diverse economy, and the fact that design and manufacturing in Minnesota are not focused on a single industry, may reinforce a more open and free-flowing exchange of knowledge and ideas.

Consider Detroit and Los Angeles, for example, two cities known for their manufacturing and fabrication. In each case, manufacturing is closely tied to one or two primary industries: the automobile in Detroit, entertainment and aerospace in Los Angeles. In contrast, Minnesota boasts such a rich mix of manufacturers and design talent that the research and development shared among them has created a collective intelligence in this particular place. Neil describes the Minnesota companies with which he has worked as displaying a general "openness to operating in new and innovative ways. They are willing to tinker and experiment, to try and figure something out while still keeping the focus on quality."

Whatever the root causes are, it is quite clear to world-class firms such as Gehry Technologies that Minnesota is home to some of the most innovative manufacturers and fabricators of building products and technologies. What used to be Minnesota's best-kept design and construction secret is a secret no more. **AMN**

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AKF GROUP LLC

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Minneapolis,
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www.akfgroup.com
Year Established 1989
Total in MN Office: 11
Total In Other Offices: 327
Other Offices: Boston, MA; Mexico City,
Mexico; New York, NY; Philadelphia, PA;
Princeton, NJ; Puebla, Mexico;
Rochester, MN; Stamford, CT
Contact: jhaley@akfgroup.com.
(612) 567-5012

Firm Principals

Hollis Linehan, LEED AP
Robert Gelle, PE
Jim Sebesta, PE
Justin M. Haley, AIA, CSI
Charles Weerts, PE
Brian Kelly, PE
Sean Sonnabend, PE
Debbie Reider, PE, LEED AP

AKF is a full-service consulting engineering firm serving public and private sector clients across the United States and around the world. AKF provides a full range of professional engineering services including HVAC, electrical, plumbing & sanitary engineering, and fire/life safety engineering. Specialty services include Analysis & Testing, Building Management Systems, Central Utilities, Code Consulting, Commissioning, Critical Systems, Energy & Sustainability, IT/AV/ Security, Lighting Design and Special Inspections.

Representative Projects

Princeton University Data Center, Princeton, NJ; Undisclosed Health Care Client, Data Center, Rochester, MN; Guggenheim Museum Renovation, New York, NY; Harvard University TATA Business School, Boston, MA; Mayo Health Clinic System, Rochester, MN; Federated Insurance Data Center, Owatonna, MN; Olmstead County Government Center, Rochester, MN; The Nic Residential Tower, Minneapolis, MN.

ALIGN STRUCTURAL, INC.

241 Cleveland Avenue South, Ste. B7
Saint Paul, MN 55105
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Email: rickj@alignstructural.com
www.alignstructural.com
Year Established: 2013
Total in MN Office: 2
Contact: Rick Johnson, PE, (651) 698-0164

Firm Principal

Christian Soltermann, PE

Structural consulting services for commercial, residential, industrial, and institutional projects. Structural assessments of existing structures. Forensic investigations of structural conditions to assist clients in the legal and insurance industries. Firm enjoys helping clients get to the core of their structural needs in an efficient manner.

Representative Projects

Lakewinds Natural Foods, Richfield, MN;
Taco Bell Restaurants, multiple sites;
Mancini's-Minnesota State Fair, Saint Paul, MN; Chevrolet of Delano, Delano, MN;
Worthington Bus Garage, Worthington, MN;
Friends School of Saint Paul, Saint Paul, MN; Zion Lutheran School Addition, Mayer, MN; Peoples Organic Coffee & Wine Café, Eden Prairie, MN.

AMERICAN ENGINEERING TESTING, INC.

**AMERICAN
ENGINEERING
TESTING, INC.**

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MN 55114
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Fax: (651) 659-1379
Email: info@amengtest.com
www.amengtest.com
Established 1971
Total in MN Office: 210
In Other Offices: 155
Other Offices: Albertville, Duluth,
International Falls, Mankato, Marshall, &
Rochester, MN; Beresford, Pierre, Rapid
City, & Sioux Falls, SD; Dickinson &
Williston, ND; Chippewa Falls, Eau Claire,
Green Bay, Menomonie, & Wausau, WI;
Palatka, FL
Contact: Bill Holder, PE, PG (651) 659-9001

Firm Principals

Daniel Larson, PE
Terrance (Terry) Swor, PE, PG
Robert Kaiser
David Rettner, PE
Jeffery Voyer, PE
Robert Krogsgaard

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AET prepares the foundation of your design opportunities. Decades of experience and cataloged analyses inform your geotechnical explorations, environmental assessments and remediations, building forensics and envelope investigations, nondestructive testing (NDT), concrete and petrographic analyses, and pavements projects. Our in-house service lines and technical expertise are taking us to greater heights. Ask how our new concrete, petrographic, and chemistry labs reveal the truth about your historical masonry and mortars.

Representative Projects

Wayzata Bay Development, Wayzata, MN;
Union Depot Renovation, St. Paul, MN; LRT
Green Line, St. Paul, MN; Minnesota Soy
Bean Processor Rail Spur, Brewster, MN;
Bluestone Lofts and the Shops of Bluestone,
Duluth, MN; Sioux Falls Event Center, Sioux
Falls, MN; Target North Campus, Brooklyn
Park, MN; Beacon Bluff Development,
St. Paul, MN.

DIRECTORY OF CONSULTING ENGINEERING FIRMS

Architecture Minnesota presents the 22nd directory of Minnesota firms providing consultative engineering services. Principals of these firms are members of the American Council of Engineering Companies of Minnesota, AIA Minnesota or firms not aligned with either organization.

Engineers provide those critical design skills that enable our entire built environment to be structurally safe, comfortably warm, well lit, and environmentally friendly. They also design our highways and bridges, water treatment facilities and power generation plants.

In Minnesota, you will find there is a wealth of engineering talent available for your next project. Study this directory and call either the American Council of Engineering Companies of Minnesota (ACEC) at (952) 593-5533 or the American Institute of Architects Minnesota (AIA Minnesota) at (612) 338-6763 for additional information and assistance.

Legend

AIA	American Institute of Architects (Licensed)
AICP	American Institute of Certified Planners
CCM	Certified Construction Manager
CID	Certified Interior Designer
CIH	Certified Industrial Hygienist
CCA	Certified Commissioning Authority
LA	Landscape Architect (licensed)
PE	Professional Engineer
PG	Professional Geologist
PLS	Professional Land Surveyor (registered)
RA	Registered Architect
RCDD	Registered Communications Distribution Designer
LS	Land Surveyor (licensed)
SE	Structural Engineer (Certified)

**ATS&R PLANNERS/
ARCHITECTS/ENGINEERS**

8501 Golden Valley Road, Ste. 300
Minneapolis, MN 55427
Tel: (763) 545-3731
Fax: (763) 525-3289
Email: information@atsr.com
www.atsr.com
Established 1944
Total in MN Office: 47

Firm Principals

Terry L. Stofferahn, PE
James T. Lange, PE
Paul W. Erickson, AIA, NCARB, REFP
Dean S. Beeninga, AIA, NCARB, REFP, LEED AD
David M. Maroney, AIA, NCARB
Mark G. Hayes, AIA
Daniel C. Moll, AIA, NCARB

ATS&R is a multi-disciplined architectural/engineering firm providing mechanical and electrical engineering for educational facilities, religious facilities, and public buildings. Our specialized designs for energy conservation measures include passive solar, heat recovery systems, thermal storage, variable air volume, displacement ventilation, and energy management systems. Our engineers provide commissioning and recommissioning services as well as ARC flash analysis. We also offer site design, stormwater management, and technical design for video, voice, data and security systems.

Representative Projects

Arc Flash Analysis, Osseo Area Schools, Osseo, MN; Primary Service Upgrade, Anoka-Hennepin School District, MN; Ventilation & IAQ Upgrades, Rochester Public Schools, Rochester, MN; I.J. Holton Intermediate School, Austin Public Schools, Austin, MN; Lourdes High School, Rochester, MN; Central Medical Building Recommissioning, Minneapolis, MN; Boiler Replacements, Minneapolis Public Schools, Minneapolis, MN; Chiller Replacement & Facility Study, North Branch Public Schools, North Branch, MN.

BKBM ENGINEERS, INC.

5930 Brooklyn Boulevard
Brooklyn Center, MN 55429
Tel: (763) 843-0420
Fax: (763) 843-0421
Email: bkbm@bkbm.com

continued next column

www.bkbm.com
Established 1967
Total in MN Office: 36
Other Offices: Mandan, ND
Total in Other Office: 1
Contact: Ron LaMere, (763) 843-0420

Firm Principals

Ronald J. LaMere, PE
Andrew M. Rauch, PE
Thomas J. Cesare, PE
Katherine A. Russell, PE

BKBM Engineers is a nationally renowned, multi-discipline engineering firm serving our clients and our communities structural and civil design, restoration and investigative needs. BKBM has taken an active and conscious role in providing green design for LEED projects.

Representative Projects

Hennepin County 911 Emergency Center, Minneapolis, MN; Pequot Lakes MS/HS, Pequot Lakes, MN; St. Cloud State University, ISELF, St. Cloud, MN; Macalester Fine Arts Center, St. Paul, MN; Longfellow Station, Minneapolis, MN; The Bridges Student Housing, Minneapolis, MN; Valspar, Minneapolis, MN; Olson, Minneapolis, MN.

BRAUN INTERTEC**BRAUN
INTERTEC**

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Minneapolis, MN 55438
Tel: (952) 995-2000
Email: sflaten@braunintertec.com
www.braunintertec.com
Established 1957
Other Offices: St. Paul, St. Cloud, Rochester, Mankato, Duluth, MN; Cedar Rapids, IA, Milwaukee, La Crosse, WI; Bismarck, Dickinson, Minot, West Fargo, Williston, ND
Total in MN Office: 315
Total in Other Offices: 352
Contact: Steve Flaten, (952) 995-2000

Firm Principals

Jon A. Carlson, PG
Robert J. Janssen, PE
Gregg Jandro, PE
Charles R. Brenner, PE
Michael M. Heuer, PE
Steven J. Flaten, AIA

continued next column

Assisting public and private organizations and property owners with site evaluations, site preparation recommendations and construction support services has been at the heart of Braun Intertec for more than five decades. Our multi-disciplinary approach and wealth of resources enable us to find cost-effective solutions while providing you with timely, quality service. Our more than 600 employees represent multiple technical disciplines including environmental consulting, geotechnical engineering, testing, special inspections, geothermal consulting and facilities evaluations.

Representative Projects

CapX 2020, Minnesota; Lowertown Ballpark, St. Paul, MN; U of M Physics and Nanotechnology Building, Minneapolis, MN; Southwest Light Rail Transit, Minneapolis, MN; Central Corridor Light Rail Transit Project, Minneapolis/St. Paul, MN; Bishop Whipple Building-Geothermal, Minneapolis, MN; I-169 & I-494 Highway Interchange, Minneapolis, MN; Northrop Auditorium, Minneapolis, MN.

CAIN THOMAS ASSOCIATES, INC.

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Established 1983
Total in MN Office: 11
Contact: Jay J. Cain, (651) 287-1120

Firm Principals

Jay J. Cain, PE
Scott D. Thomas, PE, LEED AP
Ryan Stephans, PE

Cost effective and energy conscious electrical and mechanical engineering design on a wide variety of project types, including healthcare, specialty housing, retail, transportation, public works, office, education, worship, recreational, communications and industrial. Specialties include interior and exterior lighting, fire protection, geothermal heating/cooling, vehicle specialties, renewable energy, radiant floor systems, bridge electrical, sustainable/green design, streetscape electrical, data center specialties, displacement ventilation, commissioning, LEED certification, deferred maintenance programs, energy modeling and energy recovery systems.

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Representative Projects

Sholom Home East (Assisted Living/skilled nursing/independent living), St. Paul, MN; City of North St Paul MN Public Works (Office and Shops), North St. Paul, MN; MN State Capitol Complex Parking Ramp Relighting, St. Paul, MN; TW Telecom Co-location Site (Server Farm), Minnetonka, MN; I-90 Bridge Replacement (Electrical), Dresbach, MN; Commuter Rail Transit Village Parking Facility, Anoka, MN; Hmong Academy Expansion, St. Paul, MN; Mount St. Benedict Monastery Addition/Remodel, Crookston, MN.

CIVIL SITE GROUP

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Tel: (952) 250-2003
Email: mpavek@civilsitegroup.com
www.civilsitegroup.com
Established 2009
Total in MN Office: 5
Contact: Matt Pavek, (763) 213-3944

Firm Principals

Matt Pavek, PE
Patrick Sarver, LA
Robert Binder, LA

Civil Site Group is an award winning professional consulting firm serving the land development marketplace with services in civil engineering, landscape architecture and municipal land entitlements. Our firm is built on a foundation of providing market leading professional site engineering services with a creative, integrated, solution oriented approach. Our project successes are most often the direct result of our client centered project management style and our unparalleled team oriented mindset.

Representative Projects

Metro Park East Student Housing, Minneapolis, MN; Gallery Flats Apartments, Hopkins, MN; Cedar Flats Apartments, Eagan, MN; Broadway Commercial Redevelopment, Minneapolis, MN; Grain Belt Terrace Historic Redevelopment, Minneapolis, MN; The Landing Senior Housing, Chaska, MN; 7 West Apartments, Minneapolis, MN; Eagle Creek Estates, Prior Lake, MN.

CLARK ENGINEERING CORPORATION

621 Lilac Drive North
Golden Valley, MN 55422
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Fax: (763) 541-0056
Email: info@clark-eng.com
www.clark-eng.com
Established 1938
Total in MN Office: 39
Other Offices: Aberdeen, Sioux Falls,
and Watertown, SD
Total in Other Offices: 26
Contact: Doug Fell, (763) 545-9196

Firm Principals

Abi Assadi, PE
Cory Casperson, PE
Tim LaBissoniere, PE
Doug Fell, PE
Vladimir Scheglovski, PE
Kevin Goff, PE
Don Weigel, PE

Clark Engineering Corporation provides structural engineering, civil engineering, 3D laser scanning, surveying, and resource recovery and renewable energy services for commercial, educational, industrial, hospitality, and public sectors for new and existing facilities throughout the world. Clark also offers a wide-range of specialty services, including emergency response, project management, restoration, sustainable design, and vibration and blast resistance structures. Civil engineering offers site development, bridge design/inspection, and highway design/pavement management.

Representative Projects

Austin 5-6 Intermediate School, Austin MN;
Alexandria High School, Alexandria, MN;
Madison Lutheran Hospital and Nursing Home Addition, Madison, MN; Union Depot Laser Scanning, St. Paul, MN; Town and Country Credit Union, Fargo, MN; Vadnais Heights Medical Building Site Design, Vadnais Heights, MN; Rocky Gap Resort and Casino Remodeling, Cumberland, MD; First National Bank Building Restoration, Minneapolis, MN.

CRANE ENGINEERING BUILDING SCIENCE**Crane Engineering Building Science**

2355 Polaris Lane North, Suite 120
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Tel: (763) 557-9090
Fax: (763) 557-0710
Email: jeffb@CraneEngineering.com
www.CraneEngineering.com
Established 2010
Total in MN Office: 40

Firm Principals

Stefan D. Helgeson, AIA, ASLA
Thomas R. Crane, PER

Crane Engineering Building Science uses forensic science technologies to diagnose building failures and damage due to materials, codes or contract issues resulting from design, construction defects or maintenance deficiencies, operations, accidents, weather or catastrophic events. Forensic Disciplines: Architecture, Structural Engineering, Fire Protection Engineering, Mechanical, HVAC and Plumbing Systems, Electrical Engineering, Landscape Architecture and Civil Engineering, Geotechnical Engineering, Building Envelope.

Representative Projects

Retail and Commercial Buildings, Industrial and Manufacturing Buildings, Institutional Facilities, Residential: Single and Multi-Family, Condominiums.

DARG BOLGREAN MENK, INC.

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Email: info@dbm-inc.com
www.dbm-inc.com
Established 1966
Total in MN Office: 7
Other Offices: Williston, ND
Contact: Harry D. Menk, PE, (763) 544-8456

Firm Principals

Gene Bolgrean, PE
Harry D. Menk, PE

continued next column

Complete structural engineering services for commercial/retail, office/warehouse, academic, industrial, governmental, medical/health, housing, religious, and parking facilities. With expertise in steel, concrete, masonry and wood, DBM has engineered new construction, additions and renovations/restorations on over 7,000 projects in 25 states.

Representative Projects

MNDOT Bridge Crew Building, Maplewood, MN; Dakota Manufacturing, Williston, ND; Lutheran Homes Sr. Housing, Muscatine, IA; Keller Golf Clubhouse, Maplewood, MN; Villas at Lillydale, Lillydale, MN; Public Works Bldg., Cochran, MN.

DARREN B. TOWELLS, INC. STRUCTURAL ENGINEERING

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Email: towells@mts.net
www.dbtowell.com
Year Established 2006
Total in MN Office 2
Other Offices: Winnipeg, Canada

Firm Principal

Darren B. Towells

Darren B Towells is a registered structural engineer (PE) in the following jurisdictions: Minnesota, Wisconsin, Washington, and Virginia, Manitoba, Saskatchewan, Alberta, Ontario, Northwest Territories, in Canada. His portfolio varies from buildings with high occupant loadings to industrial buildings. His educational background in biosystems engineering provides him with a wide knowledge base. The following brief sampling of projects demonstrates his sensitivity to other climates, extreme environments, sensitivity to occupant's needs, historic structures and Native American cultures.

Representative Projects

Woodbridge of New Hope, MN; The Wyldewood, Minnetonka, MN; Cornelia Place Apts, Edina, MN; St. Peters Dynevor Anglican Church Rectory, Manitoba; South Beach Casino & Resort, Brokenhead Ojibway Nation, Manitoba; Springs, Inter City, Community Project, Winnipeg, Manitoba; Grain Storage Lab, University of Manitoba; MaltEurop, Winona MN.

DUNHAM ASSOCIATES, INC.

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Tel: (612) 465-7550
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Email: info@dunhameng.com
www.dunhameng.com
Established 1960
Total in MN Offices: 100
Other MN Offices: Duluth & Rochester, MN
Contact: Jay Rohkohl, (612) 465-7601

Firm Principals

Jay Rohkohl, PE
Steven J. Gentilini, PE
Dale Holland, PE
Todd Grube, PE
Matt Jensen, PE
Randy Olson, PE
Greg Steinmetz, PE
Mark Oldyn

Dunham offers mechanical, electrical, and low voltage consulting engineering services to our clients across the United States. Our major practice areas are commissioning + energy services, commercial, education, healthcare, hospitality, mission critical, and retail. We have teams of specialists in indoor air quality, sustainable design, LEED certification, and CFD modeling, enabling us to help our clients optimize the performance of their building systems.

Representative Projects

Best Buy Prototype and Store Design, Nationwide; National Marrow Donor Program Headquarters, Minneapolis, MN; Fairview Southdale Hospital, Emergency Department, Edina, MN; Minnesota Legislative Office Building, St. Paul, MN; BlueCross BlueShield of MN Data Center Upgrades, Eagan, MN; Carleton College Recreation Center RetroCx, Northfield, MN; Bielenberg Sports Center Expansion, Woodbury, MN; SCSU, Shoemaker Residence Hall Renovation, St. Cloud, MN.

EMANUELSON-PODAS, INC.

emanuelson-podas
consulting engineers

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Email: emanuelsonpodas@epinc.net
www.epinc.net
Established 1968
Total in MN Office 45
Contact: Scott Vander Heiden,
(952) 930-0050

Firm Principals

Michael A. Webert, PE
Matthew W. Fuels, PE
Scott A. Vander Heiden, PE
John K. Nordstrom, PE

We are a mechanical and electrical engineering firm offering HVAC, building automation, plumbing, lighting, power, communications, life/safety, power generation and sustainable design services with a broad range of project types including corporate, education, financial, fitness, healthcare, hospitality, industrial/manufacturing, multi-family/senior housing, municipal, office buildings, parks & recreation, religious and retail/restaurants.

Representative Projects

The Art of Shaving, national retail rollout; Emanuel Housing, Minneapolis, MN; Tesla Motors Service Centers, national rollout; McLeod County Highway Maintenance Facility; Griggs County Courthouse, Cooperstown, ND; Waconia Manufacturing Facility, Norwood Young America, MN; Life Time Fitness, Reston, VA; First National Bank, Cold Springs MN.

ENGINEERING DESIGN INITIATIVE

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www.edilimited.com
Established 2002
Total in MN Office: 16
Contact: Jay Hruby (612) 343-5965

continued next column

Firm Principals

Jay Hruby, PE
Larry Svitak, PE

EDI provides innovative M/E engineering solutions for a variety of building types. Our services include M/E engineering, building commissioning, energy modeling and daylight modeling services. EDI is committed to delivering designs that are energy efficient, maintainable and sustainable. We are passionate in our creative design, attention to detail and commitment to teamwork – from defining initial performance goals through validation by commissioning.

Representative Projects

Hennepin County Walker Library, Minneapolis, MN; City of Roseville Fire Station #1, Roseville, MN; St. Paul Schools District Wide Security Upgrade, St. Paul, MN; Anoka County Highway Department Building, Andover, MN; Hennepin County E911/Dispatch Commissioning, Plymouth, MN; Beltrami County Jail Security Electronics Upgrade, Bemidji, MN; 35W Bridge Remembrance Garden, Minneapolis, MN; Sherburne County Government Center Chilled Water Plant, Elk River, MN.

ERICKSEN ELLISON AND ASSOCIATES

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Tel: (651) 632-2300
Fax: (651) 632-2397
Email: tpeterson@eeaengineers.com
www.eeaengineers.com
Established 1954
Total in MN Office: 19
Contact: Todd Peterson, (651) 632-2320

Firm Principals

James H. Art, PE
Terri A. Fleischhacker
Todd A. Peterson, PE
William F. Thiesse, PE

EEA is a mechanical/electrical engineering company with extensive experience in design and commissioning of Public Projects: judicial/correctional, libraries, government, and maintenance. Commercial: medical facilities, data centers, and retail. Education: recreation centers, libraries, laboratories, dormitories, and campus centers; EEA has LEED certified engineers specializing in system modeling and innovative approaches for reducing energy consumption without sacrificing utility or comfort.

continued next column

Representative Projects

Minneapolis Central Library (design/ commissioning), Minneapolis, MN; Grinnell College New Campus Center (design and LEED certification review), Grinnell, IA; MCF Faribault Campus (energy infrastructure/ renovation/new buildings), Faribault, MN; Unisys NAEC Data Center (design/ commissioning), Eagan, MN; Macalester College (athletic/recreation center), St. Paul, MN; Bethel University Commons, Arden Hills, MN; Eli Lilly Corporate Data Center, Indianapolis, IN.

ERICKSEN, ROED & ASSOCIATES (ERA)

ERA
ERICKSEN ROED
& ASSOCIATES

2550 University Avenue West, Suite 201-S
St. Paul, MN 55114
Tel: (651) 251-7570
Fax: (651) 251-7578
Email: info@eraeng.com
www.eraeng.com
Established: 1984
Total in MN Office: 59
Other Office: Eau Claire, WI
Total in Other Office: 6
Contact: Kent Larson, (651) 414-6166

Firm Principals

Michael A. DeSutter, PE
James D. Roed, PE
William T. Buller, PE, SE
Robert J. Quinn, PE
Michael S. Steenson, PE

Ericksen, Roed and Associates, Inc. (ERA) provides full service structural engineering for a broad range of facility types. We pride ourselves on being a team of bright individuals, working toward the common goal of providing exceptional structures for our clients. We make it our highest priority to meet scheduled delivery dates with quality documents and state-of-the-art design.

Representative Projects

St. Paul Saints Stadium (Lowertown Ballpark), St. Paul, MN; North Loop Green, Minneapolis, MN; Fortune 500 Company Office Building, St. Paul, MN Area; Mall of America Phase 1C, Bloomington, MN; National Marrow Donor Program Office Building, Minneapolis, MN; Hennepin County Medical Center Expansion, Minneapolis, MN; Downtown East Office Buildings and Residential Apartments, Minneapolis, MN; Life Time Fitness Projects, Nationwide.

ESI ENGINEERING, INC.

7831 Glenroy Road, Suite 430
Minneapolis, MN 55439
Tel: 952-831-4646
Fax: 952-831-6897
Email: tbaxter@esi-engineering.com
www.esi-engineering.com
Year Established 1970
Total in MN Office 10
Contact: Anthony Baxter, 952-831-4646

Firm Principals

Anthony J. Baxter, PE
Carl A. Nelson, PE, PhD
John A. Tinker, PE, SE

ESI has provided engineering services to A/E firms, building owners, and industrial clients for over 40 years. We specialize in solving vibration and noise related problems in health care facilities, research laboratories, and heavy and precision manufacturing environments. Our structural group focuses on design of special structures and advanced finite element analysis. Vibration and noise related services include surveys and feasibility studies, measurements, room acoustics, and design for low vibration and quiet spaces.

Representative Projects

Foundation Design, The Toro Company, Shakopee, MN; Noise Control, Nic on Fifth Residences, Minneapolis, MN; MRI Noise & Vibration Control, Children's National Medical Center, Washington, DC; Low Vibration Design, Physics & Nanotechnology Building, University of Minnesota; NASA Vehicle Motion Simulator 1, Kennedy Space Center, FL; Noise & Vibration Control, University of Iowa Children's Hospital, Iowa City, IA; LRT Noise & Vibration Studies, Twin Cities, MN; Noise & Vibration Control, SIDRA Medical & Research Center, Doha, Qatar.

**GAUSMAN & MOORE
ASSOCIATES, INC.****Gausman
& Moore**

Mechanical and Electrical Engineers

1700 Highway 36 West, 700 Rosedale Tower
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Email: gmmail@gausman.com
www.gausman.com
Established 1935
Total in MN Office: 50
Other Offices: Duluth, MN; Santa Clarita, CA
Total in Other Offices: 12
Contact: Mark Leutgeb, (651) 604-3141

Firm Principals

Edward L. Studniski, PE, LEED AP BD+C
Dave T. Blume, PE, LEED AP BD+C
Paul Haslach, PE, LEED AP BD+C
James D. Manning III, PE, LEED AP BD+C
D. Lane Hersey, PE, LEED AP BD+C

We provide mechanical, electrical, plumbing, fire protection, low voltage design and commissioning services nationwide and in Canada. Our commitment to sustainable design and high performance buildings includes four net-zero energy projects incorporating renewable energy technologies; photovoltaics, wind power, active and passive solar, along with aggressive energy reduction technologies. Business sectors include: athletic, corporate, education, government, health care, industrial, military, mission critical, and retail.

Representative Projects

425 Project, Duluth, MN; USACE Ft. Carson BBHQ, CO; Gander Mountain Stores, Nationwide; Habitat for Humanity, St. Paul, MN; Ecumen Care Center, Detroit Lakes, MN; Zero Waste Energy, San Jose, CA; St. Louis Co. Government Services Center, Duluth, MN; Target Stores, US and Canada.

HALLBERG ENGINEERING, INC.**HALLBERG ENGINEERING**

1750 Commerce Court
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Fax: (651) 748-9370
Email: rlucio@hallbergengineering.com
www.hallbergengineering.com
Established 1979
Total in MN Office: 30
Contact: Rick Lucio (651) 748-4386

Firm Principals

Richard Lucio, PE, LEED AP
Paul Fettingner, PE, LEED AP

Established in 1979, Hallberg Engineering, Inc. (HEI) is a minority-owned mechanical and electrical consulting engineering firm, specializing in mechanical, electrical, and technology systems design, commissioning, and energy services. HEI provides engineering services for a variety of market sectors including K-12 education, higher education, government, healthcare, industrial, institutional, corporate/commercial, retail/restaurant, entertainment/hospitality, and more. Having a staff consisting of several professionals registered in 49 states allows HEI to provide services throughout the U.S.

Representative Projects

Karner Blue Education Center, Blaine, MN; Parkside Elementary School, Buffalo, MN; Carleton College Weitz Center for Creativity (LEED®), Northfield, MN; Nike Store at Mall of America, Bloomington, MN; Big Thrill Factory Entertainment Center, Minnetonka, MN; Redstone Restaurant, Maple Grove, MN; APMC Clinic, Marshall, MN; RTP Company Headquarters, Winona, MN.

**HGA ARCHITECTS
AND ENGINEERS**

420 5th Street North, Ste. 100
Minneapolis, MN 55401
Tel: (612) 758-4000
Fax: (612) 758-4199
Email: info@hga.com
www.hga.com
Year Established 1953
Total in MN Offices: 306
Other Offices: Rochester, MN; Milwaukee, WI; Sacramento, Los Angeles, San Francisco, CA; Washington DC
Total in Other Offices: 592
Contact: Julie Luers, Dir. Mktg.
(612) 758-4613

Firm Principals

Paul Asp, PE, SE LEED AP (Structural)
Chuck Cappellin, PE, LEED AP (Science, Technology/Manufacturing)
Jeff Harris, PE, LEED AP (Mechanical)
Leigh Harrison, PE, LEED AP (Electrical)
Kenny Horns, PE, LEED AP (Civil)
Craig Lemma (Developer MEP)
Doug Maust, PE, LEED AP (Infrastructure)
Yan Shagalov, PE (Structural)

HGA offers Civil, Electrical, Mechanical, Structural and Industrial engineering services. HGA also has specialists in commissioning, clean environments, central plants, energy saving, utility infrastructure, facility assessments, telecommunications systems, lighting and sustainable design. Our engineering teams work collaboratively with owners, stakeholders, contractors and architects to create comprehensive solutions that meet the needs of each project. With contemporary knowledge and extensive experience we deliver reliable solutions that achieve operational, aesthetic and sustainability goals with responsive, cost-effective service.

Representative Projects

B.H. Whipple Federal Building Renovation, Ft. Snelling, MN; Dakota County Whitetail Regional Park, Empire Township, MN; Fairview Southdale Hospital, Emergency Center Expansion, Edina, MN; Emerson Facility Renovation and Metal Sensor Manufacturing, Eden Prairie, MN; Minnesota State Capitol Renovation, St. Paul, MN; Surly Destination Brewery, Minneapolis, MN; Union Depot Multimodal Transportation Hub, St. Paul, MN; University of Minnesota, Northrup Auditorium Renovation, Minneapolis, MN.

**KIMLEY-HORN AND
ASSOCIATES, INC.**

2550 University Avenue West, Ste. 238N
St. Paul, MN 55114
Tel: (651) 645-4197
Fax: (651) 645-5116
Email: tom.lincoln@kimley-horn.com
www.kimley-horn.com
Established 1967
Total in MN Office: 102
Other Offices: 62 Offices Nationwide
Total in Other Offices: 1,829
Contact: Thomas J. Lincoln, (651) 643-0453

Firm Principals

Mark Bishop, PE
Paul Danielson, PE
Gary Ehret, PE
Jon Horn, PE
Jeanne Witzig, AICP
Thomas Lincoln, PE
Will Matzek, PE

Kimley-Horn and Associates, Inc. is a national consulting engineering and transportation firm with a growing Twin Cities office that serves private and public clients across the Midwest. Our capabilities encompass all phases of a project from early planning through construction administration. Kimley-Horn effectively integrates planning, transportation planning, traffic engineering, transit design, civil engineering, structural engineering, and environmental services to efficiently meet our clients objectives and goals.

Representative Projects

Southwest Light Rail Transit Preliminary Engineering, Minneapolis to Hopkins, MN; Metropolitan Airports Commission, MSP International Airport, MN; Hennepin/Lyndale Commons Reconstruction, Minneapolis, MN; Walmart Stores, Various Sites in Upper Midwest; Cabela's Store, Woodbury, MN; Bloomington Central Station, Bloomington, MN; Penn and American Phase 2, Bloomington, MN; East Village Auar, Minneapolis, MN.

KLJ



1505 30th Avenue South
Moorhead, MN 56561

Tel: (218) 287-0300

Fax: (218) 287-6313

Email: cassie.mcnames@kljeng.com

www.kljeng.com

Year Established 1938

Total in MN Office: 35

Total in Other Offices: 665

Other Offices: Billings, MT; Bismarck, ND; Bozeman, MT; Brainerd, MN; Casper, WY; Devils Lake, MN; Dickinson, ND; Fargo, ND; Gillette, WY; Grafton, ND; Grand Forks, ND; Great Falls, MT; Helena, MT; Kalispell, MT; Minot, ND; Missoula, MT; Moorhead, MN; Rapid City, SD; Valley City, ND; Watford City, ND; West Fargo, ND; Williston, ND
Contact: Cassie McNames, (218) 287-3198

Firm Principals

Niles Hushka, PE

Dean Anagnost, PE

Barry Schuchard, PE

Since 1938, KLJ has provided multidisciplinary engineering-based solutions with the local expertise to drive projects forward and deliver successful results. We have civil and structural engineers and surveyors on staff to assist you with all your building needs. Our team has experience with private and public projects including commercial, educational, industrial, municipal, and residential buildings and sites. KLJ's services also include surface transportation, aviation, municipal, energy, telecommunications, environmental, right-of-way, and construction management.

Representative Projects

Minot International Airport Terminal, Minot, ND; Grand Forks International Airport SRE/Maintenance Building, Grand Forks, ND; KLJ Corporate Headquarters, Bismarck, ND; Silver Waters Active Living Community, Grand Forks, ND; Concordia Locker Room Facility, Moorhead, MN; Prairie Stone Retail Center, Fargo, ND; NDARNG Field Maintenance Shop, Valley City, ND; NDSU STEM Classroom & Laboratory Building, Fargo, ND.

KRECH, O'BRIEN, MUELLER + ASSOCIATES

KRECH, O'BRIEN, MUELLER
& ASSOCIATES, INC.

6115 Cahill Avenue

Inver Grove Heights, MN 55076

Tel: (651) 451-4605

www.komainc.com

Established 1985

Firm Principals

James H. Krech, PE

Brady R. Mueller, AIA, CID

Michael J. Lisowski, PE

Matthew J. Van Hoof, PE

Brian L. Riley

Stephen T. Iaria, AIA

Marc R. DuBois, AIA

Krech, O'Brien, Mueller + Associates (KOMA) offers comprehensive architectural, structural engineering and interior design services. We create inspiring, functional, people-oriented structures and spaces to meet the varied needs of a broad spectrum of organizations and industries.

Representative Projects

Xcel Energy Warehouse, Welch, MN; Gertens Garden Center, Inver Grove Heights, MN; Kohler Signature Store, Edina, MN; House of Comedy, Mall of America, Bloomington, MN; Gopher Resource Corp., Eagan, MN; American Girl, Mall of America, Bloomington, MN.

LARSON ENGINEERING, INC.



3524 Labore Road
White Bear Lake,
MN 55110

Tel: (651) 481-9120

Fax: (651) 481-9201

Email: info@larsonengr.com

www.larsonengr.com

Established 1979

Total in MN Office: 56

Other Offices: Scottsdale, AZ; Denver, CO;

Norcross, GA; Chicago & Naperville, IL; Des

Moines, IA; St. Louis, MO; Omaha, NE;

Bismarck, ND; Appleton & West Allis, WI

Total in Other Offices: 191

Contact: Kesh Ramdular, PE (651) 481-9120

Firm Principals

Lee Granquist, SE, PE

Kesh Ramdular, PE

Henry Voth, SE, PE

Celebrating 35 years of business, Larson Engineering specializes in structural and civil services. This includes new designs and remodels for industrial, commercial, retail, religious and residential facilities; as well as, materials handling systems and plant expansions. We provide site design, pavement maintenance management programs, rehabilitation services, and athletic facility engineering services. We also excel in exterior cladding, curtain and masonry wall renovation, and lifeline anchor inspections.

Representative Projects

Big Well Museum, Greensburg, KS; Confidential Medical Device Company, Upper Midwest; Crown College Athletic Facility, St. Bonifacius, MN; Tartan Sr. High School Athletic Turf, Oakdale, MN; Carlson Towers Deer Creek Pkwy, Minnetonka, MN; Foundry Square, San Francisco, CA; Pier 27, San Francisco, CA; Normandale Lake Office Park, Bloomington, MN.

LHB, INC.



PERFORMANCE
DRIVEN DESIGN.

21 West Superior Street, Suite 500

Duluth, MN 55802

Tel: (218) 727-8446

Fax: (218) 727-8456

Email: info@LHBcorp.com

www.LHBcorp.com

Established 1966

Total in MN Office: 250

Contact: Joellyn Cum, (218) 279-2240

Firm Principals:

Bill Bennett, PE

Dave Sheedy, PE, CCCA, CCS, CDT, LEED AP

Joseph D. Litman, PE

Marcie Weslock, PE, LEED AP

Tom Cook, PE, CDT

Rick Carter, FAIA, LEED Fellow

Michael Fischer, AIA, LEED AP

Kevin Holm, AIA, CCCA, CDT, LEED AP

LHB is a multi-disciplinary engineering, architecture, and planning firm known for our design leadership and loyalty to clients. LHB goes beyond good intentions and focuses on measurable performance. We are experts in public works, pipeline, industrial, housing, healthcare, government, education, and commercial design. LHB is dedicated to being environmentally responsible, reducing long term operating costs, and improving the quality of life for our clients.

Representative Projects

Wayzata Bay Center Redevelopment; Wayzata Bay Redevelopment Company, Wayzata, MN; Knollwood Mall Redevelopment; Rouse Properties, St. Louis Park, MN; Detroit Lakes Imaging & Emergency Dept. Expansion/Remodel; Essentia Health, Detroit Lakes, MN; Sage Electrochromics HVM-I Plant; Sage Electrochromics, Faribault, MN; Haines Road Reconstruction; St. Louis County, Duluth, MN; Integrity Dig; Enbridge Energy, Watersmeet, MI; Jay Cooke Swinging Bridge Reconstruction; Minnesota DNR, Carlton, MN; Thomson Hydroelectric Station Switchgear Building and Tunnel; Minnesota Power, Thomson, MN.

LKPB ENGINEERS, INC.

1935 West County Road B2, Suite 300
St. Paul, MN 55113
Tel: (651) 633-1223
Fax: (651) 633-1355
Email: karla.sampson@lkpb.com
www.lkpb.com
Year Established 1969
Total in MN Office: 37
Contact: Karla Sampson (651) 633-1223

Firm Principals

John M. Killeen, PE
Gayland J. Bender, PE
Michael A. Westemeier, PE
Allen V. Theisen, PE

LKPB Engineers provides mechanical and electrical design consulting services using the most current, proven technology blended with our commitment to sustainable values. Our full-service firm also offers specialties such as energy modeling, custom lighting, commissioning, and computational fluid dynamics. We give our clients comfortable, healthy buildings that operate efficiently, are easy to maintain and have reduced long-term costs. LKPB offers superior expertise in the education, healthcare, corporate, commercial, historical, recreational and government markets.

Representative Projects

University of Minnesota Recreation Center Expansion, Minneapolis, MN; Beckman Coulter Campus Buildings Remodel, Chaska, MN; Minnesota State University Mankato Clinical Science Building, Mankato, MN; Northfield Hospital Surgery Suite Expansion, Northfield, MN; Como Zoo Gorilla Forest Exhibit, Saint Paul, MN; Grand Casino Hinkley Silver Sevens Lounge Remodel, Hinkley, MN; Royal Bank of Canada Infill at RBC Plaza, Minneapolis, MN; Mayo Clinic Dan Abraham Healthy Living Center Expansion, Rochester, MN.

MATTSON MACDONALD YOUNG, INC.

901 North 3rd Street
Minneapolis, MN 55401
Tel: (612) 827-7825
Fax: (612) 827-0805
Email: Stephanie@mattsonmacdonald.com
www.mattsonmacdonald.com
Established 1983
Total in MN Office: 16
Contact: Stephanie Young, (612) 827-7825

Firm Principals

David H. Macdonald, PE
Stephanie J. Young, PE
Joe A. Cain, PE
Kenneth J. Green, PE
Arlen P. Grant, PE

Mattson Macdonald Young is a full-service structural engineering firm providing innovative and economical design for a wide range of building types and sizes. With expertise in wood, light gauge, structural steel, concrete and masonry, our engineers collaborate with clients on everything from residential renovations to public sculptures to multi-million dollar high rises. Our history of client satisfaction is evident in our many long-standing relationships with architects, contractors, homeowners and other clients.

Representative Projects

Higher Ground Building, Minneapolis, MN; Hmong Academy Addition, St. Paul, MN; Emanuel Housing, Minneapolis, MN; MnDOT Maintenance Facility, Maple Grove, MN; Pillsbury "A" Mill Design/Development Package, Minneapolis, MN; The Chambers Hotel, Minneapolis, MN; Lyndale Green Housing, Minneapolis, MN; "Homes by Architects" Tour, Multiple Residences.

MEYER, BORGMAN JOHNSON

12 South Sixth Street, Suite 810
Minneapolis, MN 55402
Tel: (612) 338-0713
Fax: (612) 337-5325
Email: info@mbjeng.com
www.mbjeng.com
Established 1955
Total in MN Office: 45
Other Offices: Duluth, MN; Phoenix, AZ; Green Bay, WI
In Other Offices: 22
Contact: Daniel Murphy (612) 604-3604

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Firm Principals

Daniel E. Murphy, PE
Michael J. Ramerth, PE
Jerod J. Hoffman, PE
Anthony J. Polusny, PE

Thorough, responsive, and creative structural design and engineering for all building types. Providing design solutions that fulfill the architectural vision while maintaining constructability and value to the owner. Services include design, analysis, feasibility studies, construction documents, field observation, special inspections, forensics, ramp condition surveys, preservation engineering, fabricator services, integrated steel design and detailing, and more.

Representative Projects

Allina Central Laboratory, Minneapolis, MN; Radisson Blu at Mall of America, Bloomington, MN; Mayo Dan Abraham Healthy Living Center, Rochester, MN; Minnesota Orchestra Hall Expansion, Minneapolis, MN; Carleton College Weitz Center for Creativity, Northfield, MN; University of Minnesota Physics and Nanotechnology, Minneapolis, MN; University of Minnesota Amplatz Children's Hospital, Minneapolis, MN; 222 Hennepin Avenue Mixed-use, Minneapolis, MN.

MICHAUD COOLEY ERICKSON

333 South Seventh Street, Suite 1200
Minneapolis, MN 55402
Tel: (612) 339-4941
Fax: (612) 339-8354
Email: info@michaudooley.com
www.michaudooley.com
Established 1946
Total in MN Office: 120
Contact: Angela Bristow, (612) 673-6764

Firm Principals

Dean Rafferty, PE, LEED AP
Douglas Cooley, PE, LEED AP
Joseph Tennyson

Michaud Cooley Erickson has provided consulting engineering services for over 67 years. With a team of 120, we are the largest consulting engineering firm in the region. In addition to mechanical and electrical engineering, we have specialists in fire protection, lighting design, technology systems and commissioning. Our primary markets include aviation, corporate, cultural, education, healthcare, high-tech, public, retail and mission critical sectors.

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Representative Projects

3M R&D Facility, Maplewood, MN; Metropolitan Airports Commission, MSP Int'l Airport; Target Retail Stores, Nationwide & Canada; General Mills, Minnesota; University of MN, 4th Street Residence Hall.

REIGSTAD & ASSOCIATES, INC.

192 West 9th Street
St. Paul, MN 55102
Tel: (651) 292-1123
Fax: (651) 292-9565
Email: jmreigstad@reigstad.com
www.reigstad.com
Established 1979
Total in MN Office: 27
Other Office: Gulfport, MS
Total in Other Office: 1
Contact: Jared Reigstad (651) 292-1123

Firm Principals

Gordon H. Reigstad, PhD, PE, SE
Yendranata, PE
Charles R. Ashton, PE

Established in 1979, Reigstad & Associates, Inc. provides comprehensive structural engineering design, parking ramp consultation, precast engineering and construction inspection services for new and renovation projects. With Professional Engineering registrations in 39 states, we offer these services to both public & private clients nationwide. The Precast Engineering Department provides complete precast engineering design and shop drawings required for producing precast components. Our Parking Consulting team provides full service parking consulting including functional/conceptual design, wayfinding/signage design, complete documentation and project management.

Representative Projects

Deephaven Woods Senior Housing, Deephaven, MN; Lifestyle Commons II, Plymouth, MN; Plymouth Hills Professional Building, Plymouth, MN; Guardian Angels Senior Housing Campus, Albertville, MN; One Southdale Place, Edina, MN (precast design); UTEC Mixed Use, Minneapolis, Minnesota (precast design); Specialized Treatment Services, St. Paul, MN; Junction Flats Apartments, Minneapolis, MN (precast design).

SHORT ELLIOTT HENDRICKSON INC. (SEH)



Building a Better World
for All of Us®

3535 Vadnais
Center Drive
St. Paul, MN 55110
Tel: (651) 490-2000
Fax: (888) 908-8166

Email:

trustedadvisor@sehinc.com

www.sehinc.com

Established 1927

Total in MN Office: 347

In Other Offices: 250

Other Offices: Brainerd, Duluth, Grand Rapids, Hutchinson, Mankato, Minnetonka, St. Cloud, Virginia, Worthington MN; Appleton, Ashland, Chippewa Falls, La Crosse, Madison, Milwaukee, New Richmond, WI; Denver, Lakewood, Pueblo, CO; Munster, IN; Bismarck, ND; Omaha, NE; Sioux Falls, SD; Laramie, WY.
Contact: Scott Blank, (651) 490-2000

Firm Principals

Scott Blank, AIA

Larry Koch, AIA

Trevor Frank, AIA LEED AP

Brian Bergstrom, AIA

Jeff Pedersen, AIA

Bob Kost, AICP, ASLA, LEED AP

Veronica Anderson, ASLA, AICP

Ana Nelson, ASLA

SEH is a professional services firm consisting of engineers, architects, planners, and scientists. Our purpose is Building a Better World for All of Us®. We provide civil, environmental, transportation, water, wastewater, and structural engineering; funding; planning and landscape design; architectural design; surveying, and technology. We've been in business for 85 years serving public and private clients - mining, food and beverage, agriculture, and energy-related companies.

Representative Projects

Cannon Falls Library Design, Cannon Falls, MN; Design-Build New Fire Station for Grand Forks AFB, Grand Forks, ND; The Interchange Transit HUB and Plaza, Hennepin County, MN; Marquette and 2nd Avenue Transitway, Minneapolis, MN; Glen Lake Station Park and Plaza Renovation, Minnetonka, MN; Shantz Hall Building Preservation, St. Peter, MN.

STEEN ENGINEERING, INC.



5430 Douglas Drive North
Crystal, MN 55427

Tel: (763) 585-6742

Fax: (763) 585-6757

Email: steen@steeneng.com

www.steeneng.com

Established 1993

Contact: Eugene A. Striefel, (763) 235-4781

Firm Principals

Mark R. Brengman, PE

Steven M. Youngs, PE

Eugene A. Striefel

Steen Engineering provides mechanical and electrical engineering design from feasibility studies to preparing construction documents. Design experience includes corporate, municipal, medical, hospitality, institutional and retail. Providing HVAC, plumbing, fire protection, lighting, power distribution, life safety, automatic temperature control, energy and analysis and deficiency studies.

Representative Projects

West Health TCU, Plymouth, MN; Unity Hospital TCU, Fridley, MN; North Star Light Rail Snowmelt System, Ramsey, MN; Lac Qui Parle Courthouse, Lac Qui Parle, MN; Friendship Church, Prior Lake, MN; Mattress Firms, throughout MI.

SUMMIT FIRE CONSULTING

575 Minnehaha Avenue West

St. Paul, MN 55103

Tel: (651) 251-1880

Fax: (651) 251-1879

Email: dpicciano@summitfire.com

www.summitfire.com/fire_consulting

Year Established: 2003

Contact: Dan Picciano (651) 251-1872

Firm Principals

Dan Picciano, PE CFPS

Lewis Anderson, PE CFPS

Dean Howard, PE

Ryan Bierwerth, PE CFPS

We provide services related to building and fire codes, smoke management, means of egress, fire sprinkler systems, fire alarms, hazardous materials, and structural fire protection. Construction types and uses include assembly, commercial, education, government, health care, historical, industrial, manufacturing, military, residential, university and warehouse. A majority of our projects are in the Upper Midwest but we travel with our clients.

Representative Projects

3M Campus; Maplewood, MN; Urban Outfitters Campus; Philadelphia, PA; State Capitol Renovation; St. Paul, MN; Edina Park Plaza; Edina, MN; University of Iowa School of Music; Iowa City, IA; VA Medical Center; St. Cloud, MN; Great Northern Midstream Rail Facility; Billings County, ND; MN Orchestra Hall; Minneapolis, MN.

TKDA



444 Cedar St, Ste 1500

St. Paul, MN 55101

Tel: (651) 292-4400

Fax: (651) 292-0083

Email: Vicki.snowden@tkda.com

www.tkda.com

Established 1910

Total in MN Offices: 199

Other Offices: Duluth, MN; Chicago, IL;

Kansas City, KS; Irvine, CA; Tampa, FL

Total in Other Offices: 28

Contact: Vicki Snowden (651) 292-4476

Firm Principals

William E. Deitner, PE

Thomas S. Stoneburner, PE

Kevin R. Cullen, PE

Dean Johnson, AIA

John Ahern, PE

Larry Bohrer, PE

Bret Farmer, PE

Christine Wiegert

Single source, multidisciplinary firm serving clients in the following markets: Corporate/Industrial; Higher Education; K-12 Schools and Community and Technical Colleges; Government; Mining; and Energy. Services include: Mechanical, Electrical, Structural, and Civil/Site Engineering; and Architecture, Interiors, and Landscape Architecture. Systems: Structural and Architectural Building Systems; Boiler and Chiller, Process Piping, HVAC, Plumbing, and Fire Protection; Power Distribution, Lighting, Fire Alarm, Security, Instrumentation and Controls; Access Roads, Rail, Parking Lots, Utilities, Water Supply, Water and Wastewater Treatment.

Representative Projects

Flint Hills Resources, Various Projects; Rosemount, MN; District Energy, Thermal Storage Conversion, Hans O. Nyman Plant; Saint Paul, MN; Magnetation LLC, Pellet Plant Miscellaneous Engineering; Reynolds, IN; Metro Transit, Various Operation & Maintenance Facility Improvements; Minneapolis, MN; City of Minneapolis, Parking Ramp Improvements; Minneapolis, MN; Hennepin County, Medina Public Works Facility Vehicle Wash Bays; Medina, MN; Dakota County Technical College, Transportation & Emerging Technology Renovation (Phase I); Rosemount, MN; Minneapolis Public Schools, Bethune Community School HVAC & Lighting Upgrades, Minneapolis, MN.

VAA, LLC

2300 Berkshire Lane North, Ste. 200
Plymouth, MN 55441
Tel: (763) 559-9100
Email: info@vaaeng.com
www.vaaeng.com
Established 1978
Total in MN Office: 112

Firm Principals

Scott Stangeland, PE
Keith Jacobson, PE, LEED AP
Mark Mielke, PE, P.Eng. LEED AP
Jeff Schrock, PE, LEED AP
Shawn Shahriar, PhD, PE
Kelsey Brown, PE, SE
Bernie Jansen
David Olheiser, PE

Serving our clients with excellence and integrity is our highest priority. With more than 100 people, VAA provides civil and structural engineering services to architects, build-ers and owners throughout the United States and Canada. VAA has an extensive resume of commercial and industrial buildings of all types, including corporate, medical, mission critical, hospitality, retail and DoD projects. We are experts in seismic design and progressive collapse. VAA under-stands how to partner with you to control project costs and maintain project schedules.

Representative Projects

Veteran's Administration, Minneapolis, MN; Polar Semiconductor, Bloomington, MN; Roseville Fire Station, Roseville, MN; Target Corporation, Nationwide and Canada; Fort Carson Brigade Battalion Headquarters, Fort Carson, CO; Minnetonka High School, Minnetonka, MN; The Waters (senior living), Plymouth, MN; Chart Industries Manufacturing, New Prague, MN.

**WESTWOOD
PROFESSIONALS SERVICES****Westwood**

7699 Anagram Dr.
Eden Prairie,
MN 55344
Tel: (952) 937-5150
Fax: (952) 937-5822

Email: wps@westwoodps.com
www.westwoodps.com
Established 1972
Total in MN Office: 129
In Other Offices: 322
Other Offices: St. Cloud, MN
Contact: Dan Parks, (952) 906-7435

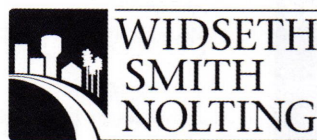
Firm Principals

Dan Parks, PE
Paul Schroeder, RLA, LEED AP
David Bade, PE
Ryan Bluhm, PE

Westwood provides comprehensive sustainable solutions to land and energy development projects nationwide. Westwood's services include land surveying, aerial mapping & LiDAR, GIS, civil engineering, electrical engineering, planning, environmental, cultural resources, landscape architecture, transportation engineering, visualization, construction management, and NPDES & SWPPP compliance.

Representative Projects

Whole Foods - Centennial Lakes, Edina, MN; Crossroads of Chanhassen, Chanhassen, MN; Minnesota Eye Consultants, Minnetonka, MN; Minnesota Veterans Home Building 17, Minneapolis, MN; Mill and Main, Minneapolis, MN; The Station, Minneapolis, MN; The Waters Senior Living, Plymouth, MN; Orchestra Hall, Minneapolis, MN

WIDSETH SMITH NOLTING

7804 Industrial Park Road
Baxter, MN 56425
Tel: (218) 829-5117
Fax: (218) 829-2517
brainerd@wsn.us.com
www.WidsethSmithNolting.com
Year Established 1975
Total in MN Offices: 165
Other MN Offices: Alexandria, Bemidji, Crookston, Red Wing, Rochester
Other Offices: Grand Forks, ND
Total in Other Offices: 17
Contact: Kevin Donnay, AIA, President,
(218) 829-5117

Firm Principals

Kevin Donnay, AIA
Kevin Wernberg, PE
Tim Schoonhoven, PE
Greg Boppre, PE
Neil Britton, PE
Curt Meyer, PE
Rich Clauson, PE
Craig Britton, PE

WSN is a fully-integrated engineering, architecture, land surveying, and environmental services firm. Our engineering group includes civil (primarily site design); municipal and water resources; structural (project specific, industrial, and bridges); mechanical (HVAC and plumbing); and electrical (lighting, power distribution, and low-voltage). Our complete team of more than 180 employees solves a variety of design and construction challenges from planning through completion.

Representative Projects

Bremer Bank, Mankato, MN; Home of Economy, Minot, ND; Pillager Secondary School Addition/Remodel, Pillager, MN; Essentia Health St. Joseph's, Baxter Clinic, Baxter, MN; Bemidji State University, Chet Anderson Stadium Artificial Turf, Bemidji, MN; Paul Bunyan Trail Bridge, Bemidji, MN; Sanford Center, Bemidji, MN; Crow Creek Tribal School, Stephan, SD

YAGGY COLBY ASSOCIATES**ASSOCIATES**

717 Third Avenue SE
Rochester MN 55904
Tel: (507) 288-6464
Fax: (507) 288-5058

Email: info@yaggy.com
www.yaggy.com
Year Established 1970
Total in MN Office: 40
In Other Offices: 35
Other Offices: Mason City, IA; Delafield, WI
Contact: Scott Samuelson, (507) 288-6464

Firm Principals

Scott Samuelson, PE
Robert Ellis
Mike Court, PE
Mark Mickelson, PE
Terry McCarthy

Yaggy Colby Associates with offices located in Rochester and Burnsville, Minnesota has over 75 employees specializing in providing Engineering, Surveying, Landscape Architecture and Planning services to clients throughout the Upper Midwest. The firm's Civil Engineers and Landscape Architects will enhance your projects with effective design of project sites that satisfy public agency requirements while our Structural Engineers focus their sound technical expertise on creatively meeting both functional and aesthetic needs of your building design projects.

Representative Projects

Metro Market Place Food Co-op/ Apartments, Rochester, MN; Mason City Schools FEMA Safe Room, Mason City, IA; Boys & Girls Club Building & Site Expansion, Rochester, MN; Jaguar Communications Data Center Addition, Owatonna, MN; Uptown Corridor Landscaping Design, Rochester, MN; Peace Plaza Public Structure and Landscape Design, Rochester, MN; City Center Urban Infill Structural Design, Rochester, MN; 2nd Street Transit Structures & Streetscape, Rochester, MN.

It takes a village to design, engineer, and construct a great building. So let's give credit where credit is due.

Borough and Parlour

Page 22

Location: Minneapolis, Minnesota

Clients: Brent Frederick and Jacob Toledo (managing partners); Tyler Shipton, Nick O'Leary, and Jesse Held (chefs)

Architect: Elness Swenson Graham Architects

Principal-in-charge: David Graham, FAIA

Project manager: Aaron Roseth, Assoc. AIA

Project architect: Heather Whalen, AIA

Project team: Aaron Roseth, Assoc. AIA; Heather Whalen, AIA; Ann Fritz (interior design); Mark Whitenack (interior design); Heather Novak-Peterson (graphic design)

General contractor: Scott Knutson

Historical consultant: Hess Roise

Custom metalwork: Form from Form

Booth seating: Jesus Rivera & Associates

Wood flooring: Lon Musolf

Tile: Tile X Design

Furniture: Howard Roark

Decorative lighting: Restoration Hardware

Photographer: Brandon Stengel, Assoc. AIA, Farm Kid Studios

The Bachelor Farmer, Marvel Bar and Askov Finlayson

Page 25

Location: Minneapolis, Minnesota

Clients: Eric and Andrew Dayton

Architect: James Dayton Design, Ltd.

Principal-in-charge: James Dayton, AIA

Project lead designer: James Dayton, AIA

Project manager: Abby Jensen

Project architect: Robert Hunter

Structural engineer: Meyer Borgman Johnson

Mechanical and electrical engineer: Michaud Cooley Erickson

Civil engineer: Pierce Pini & Associates

Interior design: Janet Gridley

Lighting design: James Dayton Design; Michaud Cooley Erickson

General contractor: McGough Construction

Mechanical contractor: Master Mechanical

Electrical contractor: Gephart Electric

Food service consultants: Premier Restaurant Equipment

Masonry work: American Masonry Restoration

Cabinetwork and millwork: Aaron Carlson Corporation

Askov Finlayson retail displays: Willie Willette Works

Interior stone: Innovative Surfaces; Twin City Tile and Marble

Wood floor restoration: Schaefer Hardwood Floors

Window systems: Kolbe & Kolbe; National Window Associates

Architectural metal panels: M.G. McGrath

Roofing: Berwald Roofing Company

Concrete work: McGough Construction

Photographer: John Reed Forsman

Brunsfeld North Loop

Page 28

Location: Minneapolis, Minnesota

Client: Brunsfeld America, Inc.

Architect: Julie Snow Architects, Inc.

Design principal: Matthew Kreilich, AIA

Project designers: Pauv Thouk, AIA; Kar-Keat Chong, Assoc. AIA

Project manager: Kar-Keat Chong, Assoc. AIA

Project architects: Tyson McElvain, AIA; Mary Springer, AIA

Project team: Pauv Thouk, AIA; Carl Gauley, Assoc. AIA; Cameron Bence, Assoc. AIA; Michael Heller, Assoc. AIA; Andrew Dull; Don Vu, Assoc. AIA; Meggen Skilling

Energy modeling: The Weidt Group

Structural engineer: Meyer Borgman Johnson

Civil engineer: Pierce Pini & Associates

Interior design: Brunsfeld America; Julie Snow Architects; Cy Winship Design

General contractor: Greiner Construction

Exterior architectural metal cladding: Dri-Design; Firestone

Storefront system: CMI Architectural

Stone countertop: Elevate

Unit cabinetwork: Elevate

Bathroom tile: Florim USA

Common space carpet: Desso; Bolyu

Unit resilient flooring: Tuff Plank

Window systems: Andersen Windows

Aluminum balconies: Endurable Products

Custom exterior and interior wood benches: Willie Willette Works

Concrete work: Gresser

Exterior plaza pavers: Vausau Tile

Elevator: Kone

Millwork: Elevate

Signage: Serigraphics

Custom corten fence: Design Fugitives

Property management: Steven Scott Management

Photographer: Paul Crosby

Smack Shack

Page 32

Location: Minneapolis, Minnesota

Clients: Josh Thoma and Kevin Fitzgerald

Architect: Elness Swenson Graham Architects

Principal-in-charge: Aaron Roseth, Assoc. AIA

Project manager: Aaron Roseth, Assoc. AIA

Project architect: Heather Whalen, AIA

Project team: Aaron Roseth, Assoc. AIA; Heather Whalen, AIA; Ann Fritz (interior design); Mark Whitenack (interior design); Angela Columb (interior design); Heather Novak-Peterson (graphic design)

General contractor: Scott Knutson

Historical consultant: Hess Roise

Custom paint finishes: John Ernst

Custom metalwork: Form from Form

Booth seating: Guido

Decorative lighting: Citilights

Tile: Kate-Lo Tile

Photographer: Brandon Stengel, Assoc. AIA, Farm Kid Studios

Epic Systems Farm Campus

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Location: Verona, Wisconsin

Client: Epic Systems Corporation

Architect: Cuningham Group Architecture, Inc.

Principal-in-charge: John Cuningham, FAIA

Project lead designers: Jack Highwart, AIA; Mary Hong, Assoc. AIA; Shawn Olson, Assoc. AIA

Project manager: Dan Grothe, AIA

Project architects: Lani Priddy, AIA; Pete Mikelson, AIA; David Engleson, AIA

Project team: John Cuningham, FAIA; Jack Highwart, AIA; Mary Hong, Assoc. AIA; Shawn Olson, Assoc. AIA; Dan Grothe, AIA; Lani Priddy, AIA; Pete Mikelson, AIA; David Engleson, AIA; Jerry Steffan; Victoria Neyman; Whitnie Noxon, Assoc. AIA; Ji Kim; Doug Coffler, AIA; Faith Hodkiewicz; Tony Glebus, Assoc. AIA; Brad Haroldson, AIA; Melissa Brewer; Eric Lagerquist, AIA; Pete Legeros, AIA; Tom Kylo, AIA; Jeff Tonkin, AIA; Josh Larson, Assoc. AIA; Laura Ingebritson; Bill Hoppenrath

Structural engineer: Magnusson Klemencic Associates

Mechanical engineer: MEP Associates; General Heating and Cooling (design-build)

Electrical engineer: The Morse Group (design-build)

Civil engineer: D'Onofrio, Kottke & Associates, Inc.

Code consultant: Arup North America

Interior design: Cuningham Group; LSC Design Studio, LLC; IN-teriors, LLC; H. Krueger & Associates

General contractor: J.H. Findorff & Son, Inc.

Landscape architect: Cuningham Group Architecture, Inc.

Landscape project team: Frank Fitzgerald; Jim Robin; Cindy Harper; Tony Siebenaler-Ransom; Linda Sievert; Jeff Epping

Stone: Vetter Stone

Window systems: H-Windows

Architectural metal panels: Interstate Roofing

Concrete work: J.H. Findorff & Son, Inc.

Millwork: Wisconsin Built

Photographer: Dana Wheelock

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